

Figure 1A

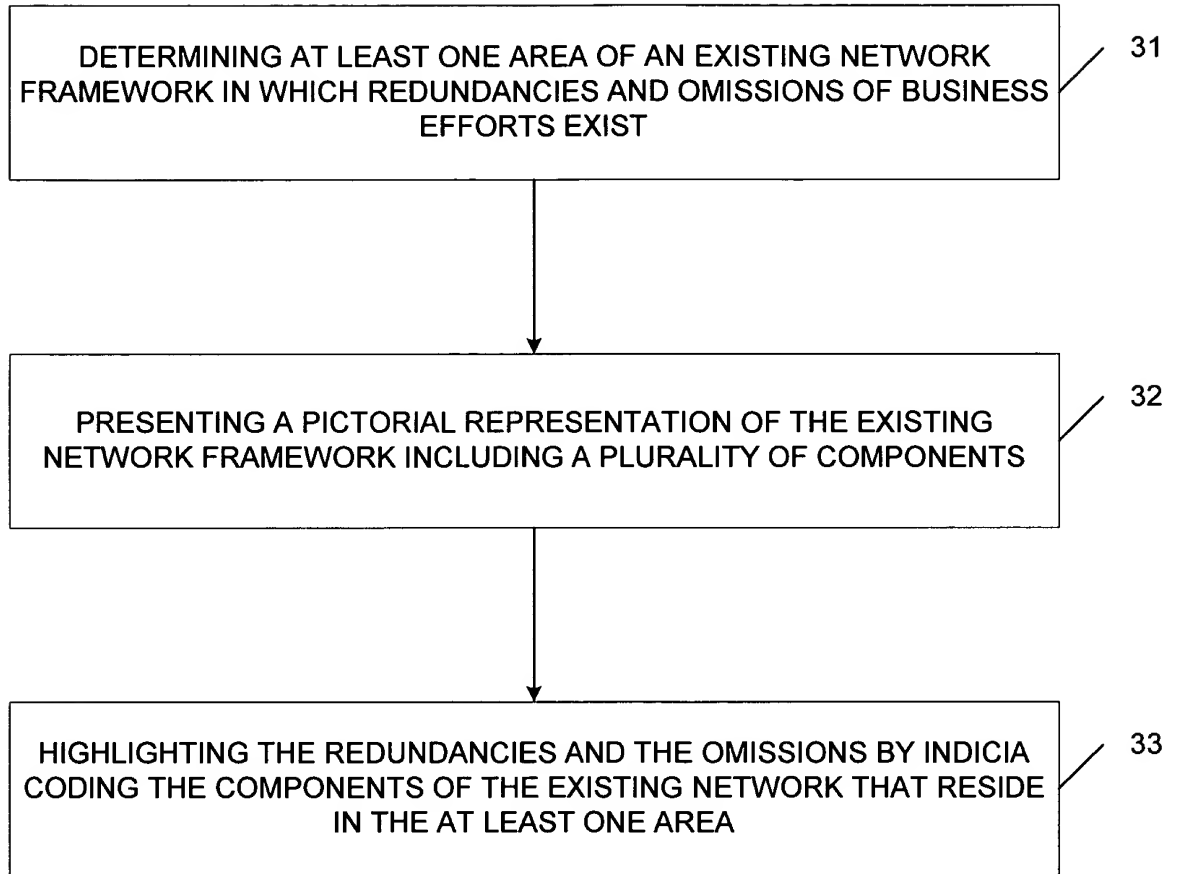


Figure 1B

31a 31b 31c 31d 31e

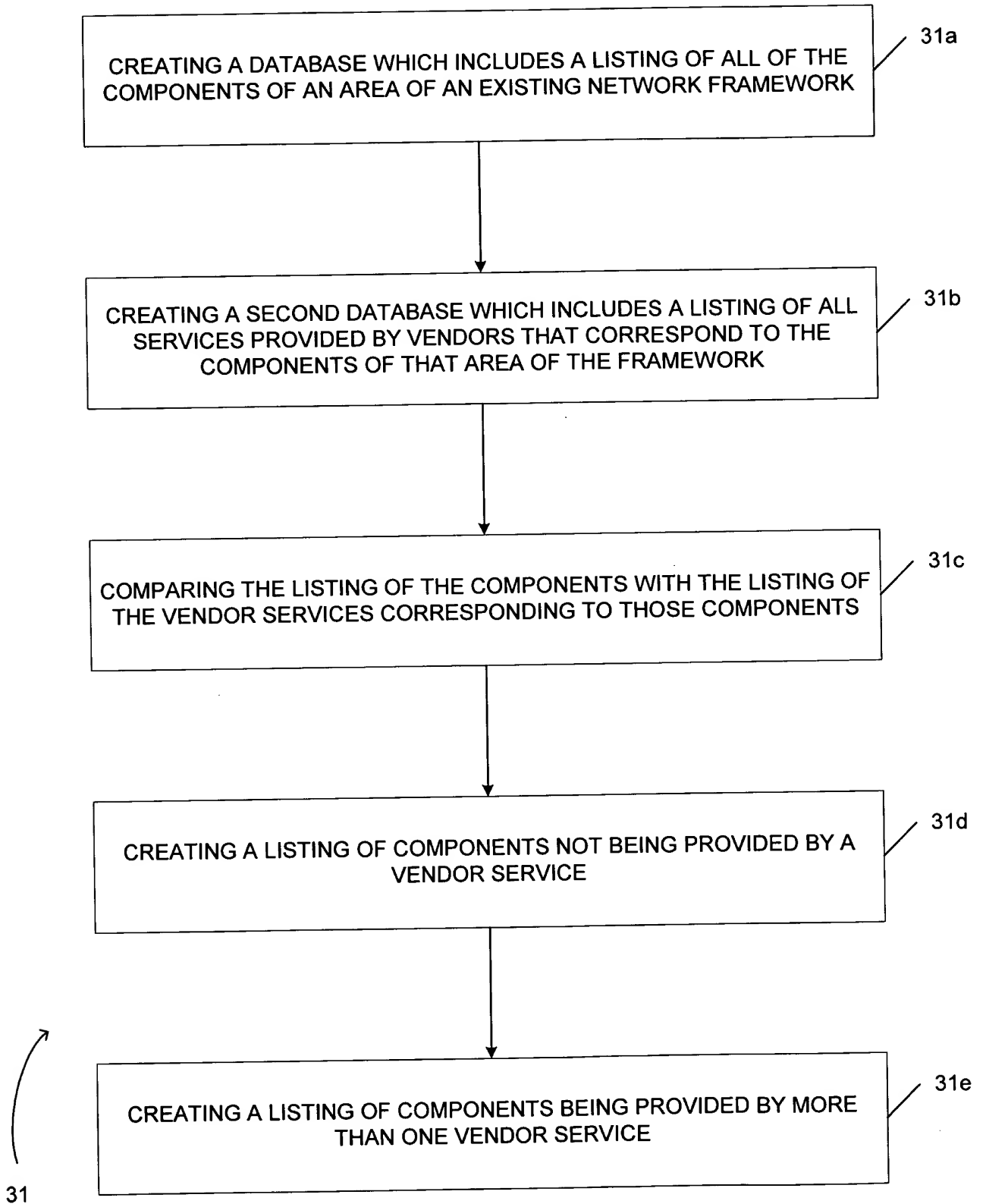


Figure 1B-1

652,633:06,4660

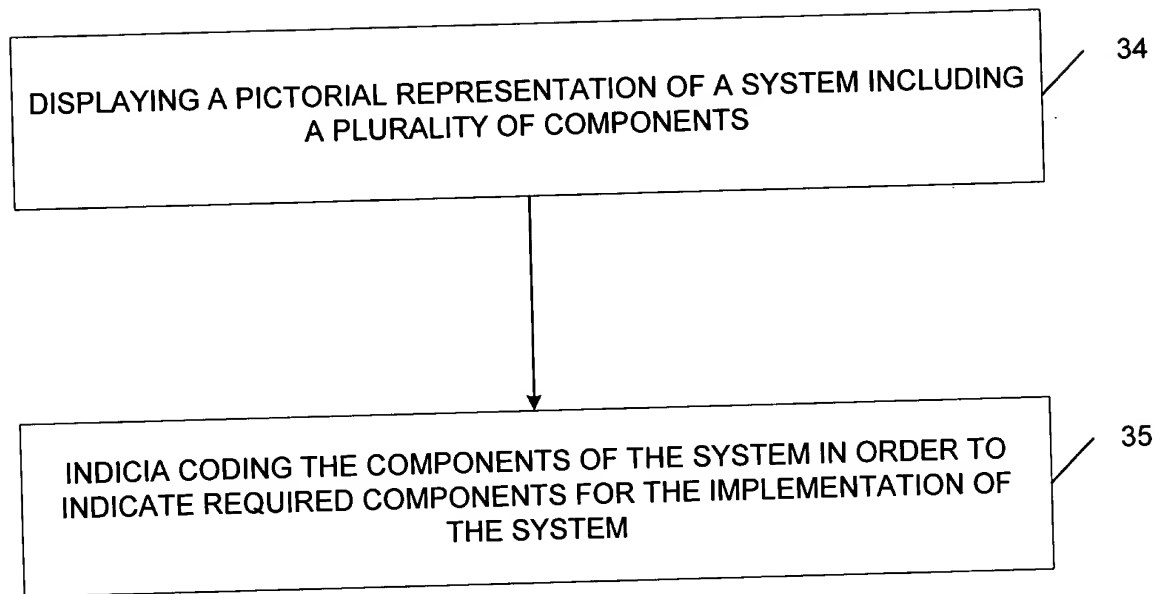


Figure 1C

SECRET

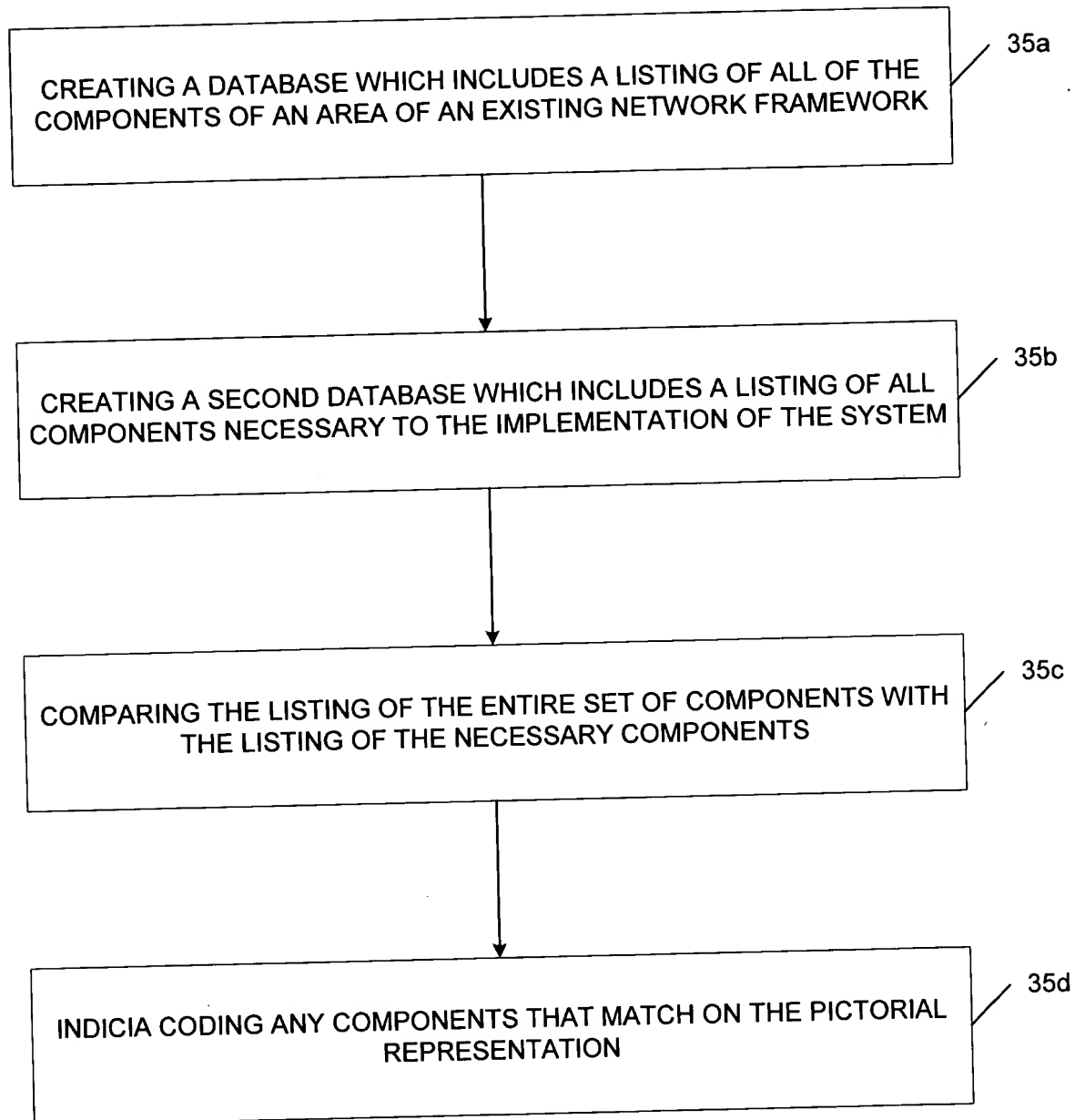
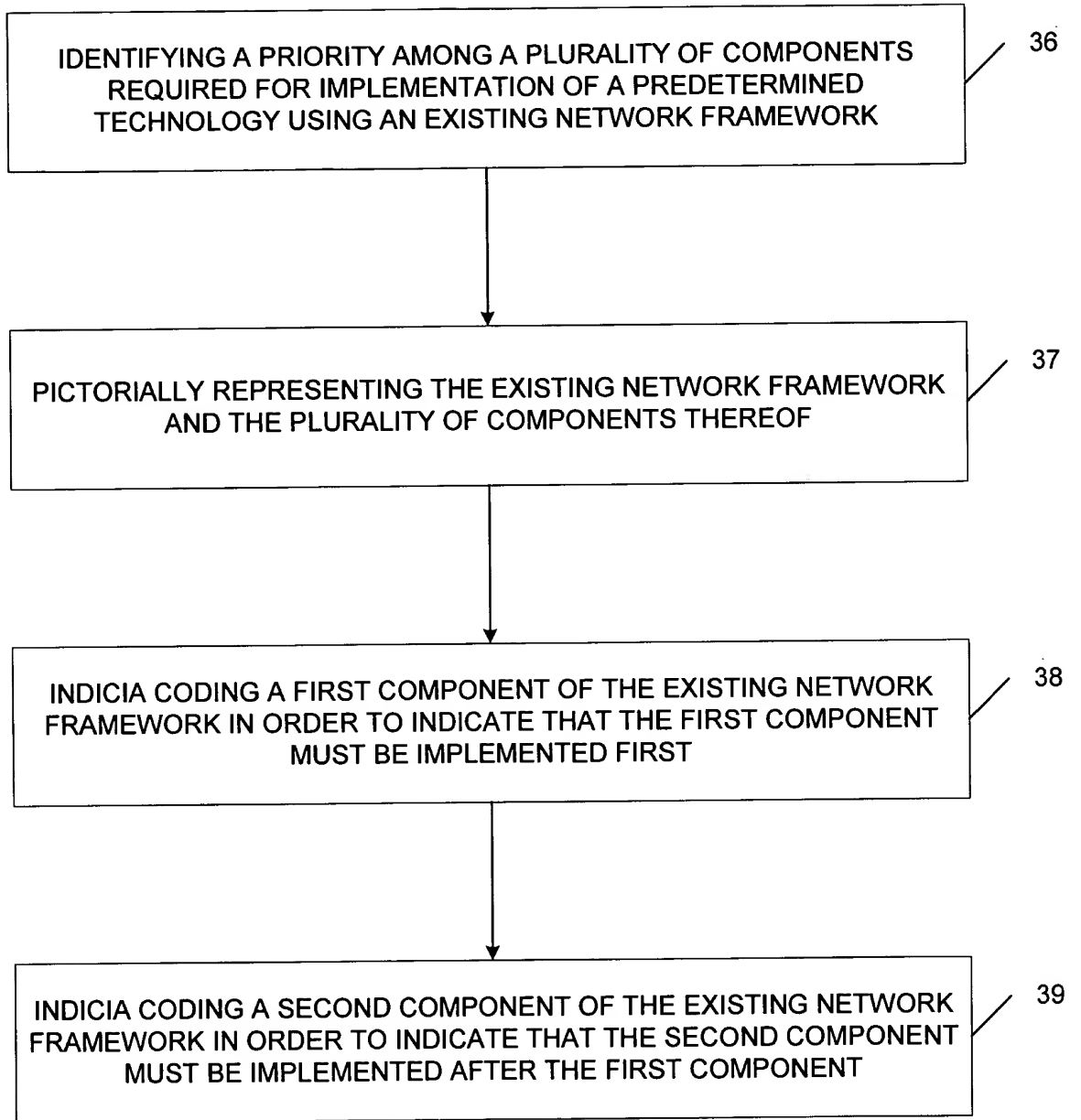


Figure 1C-1



16

Figure 1D

SECRET

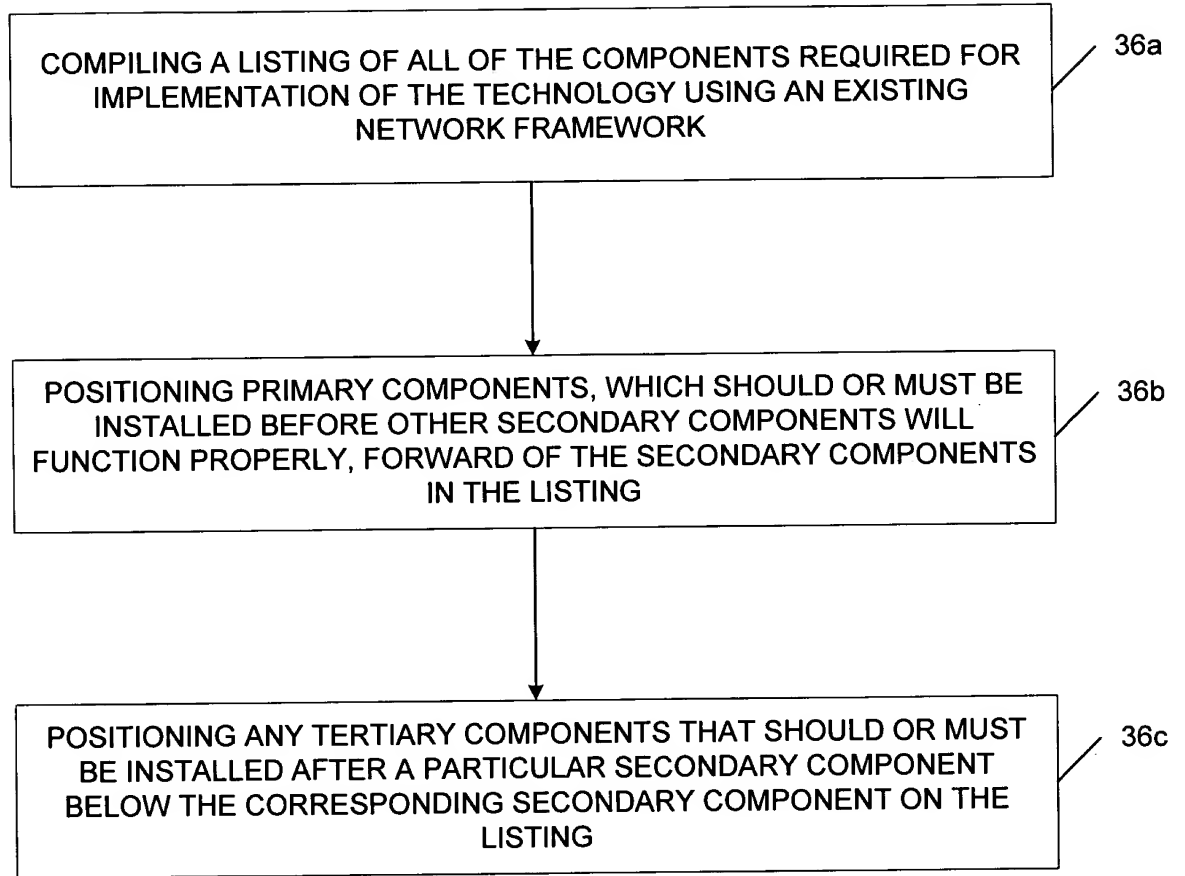


Figure 1D-1

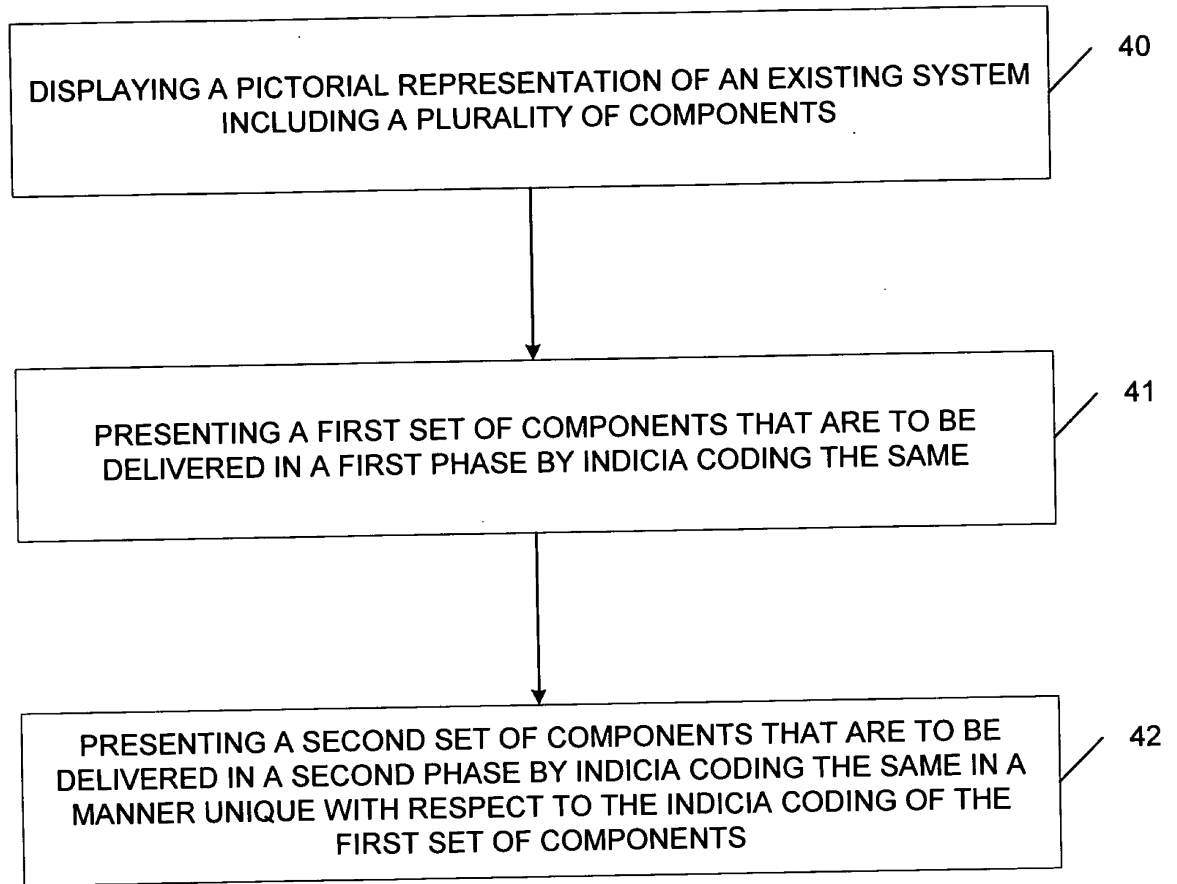


Figure 1E

18

SECRET

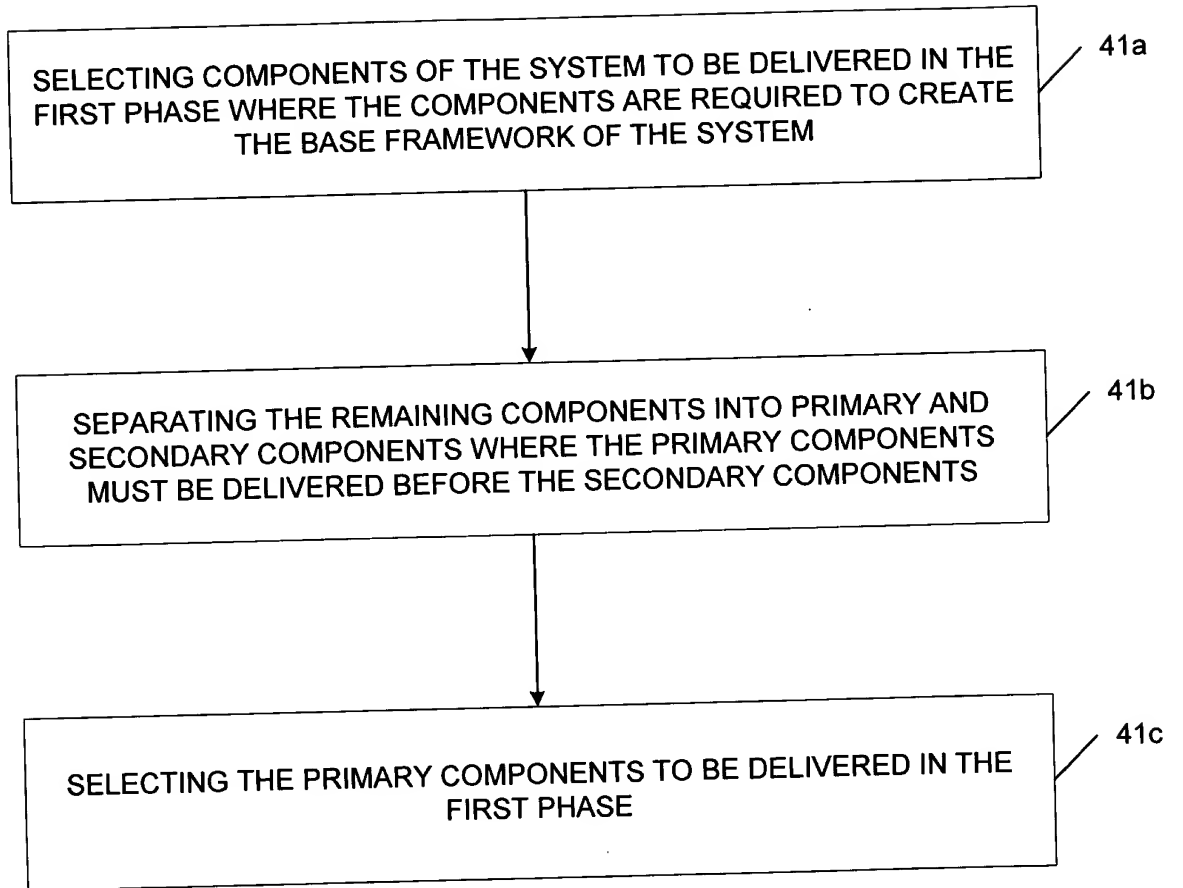


Figure 1E-1

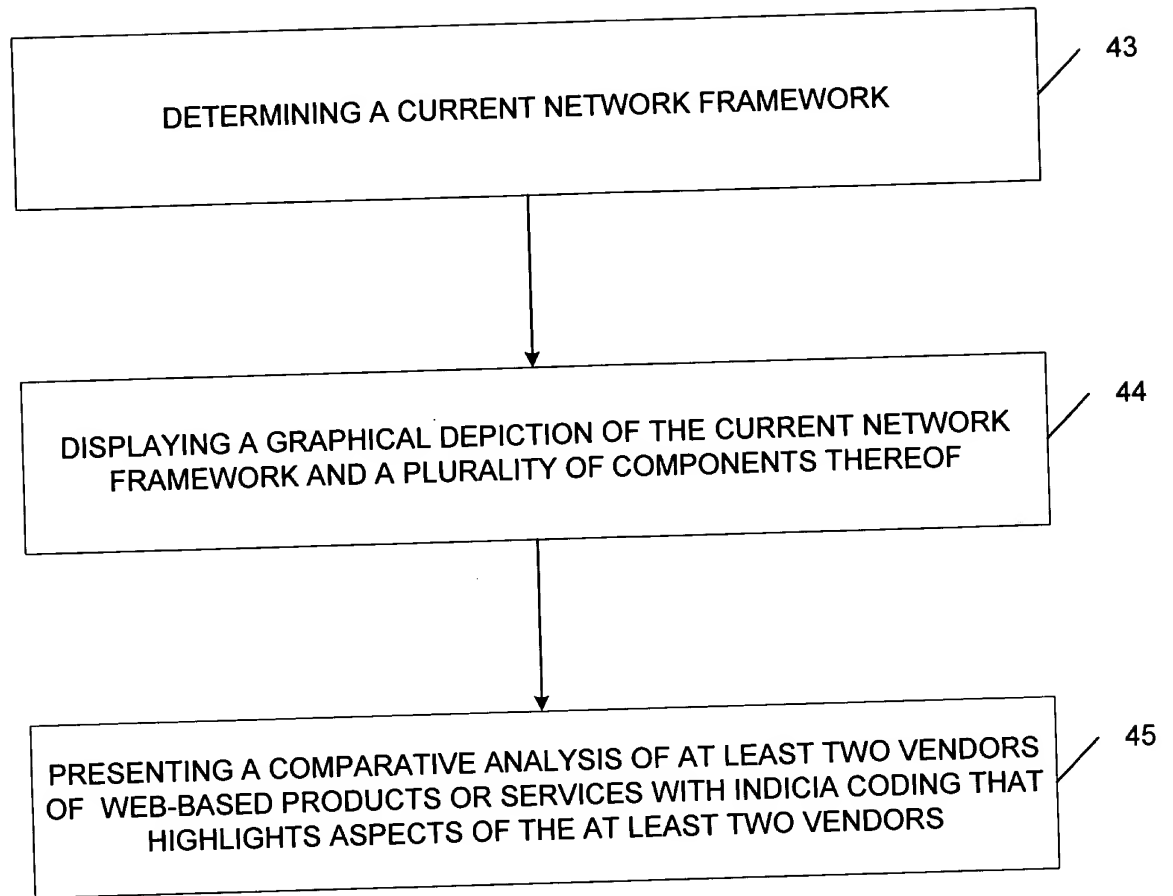
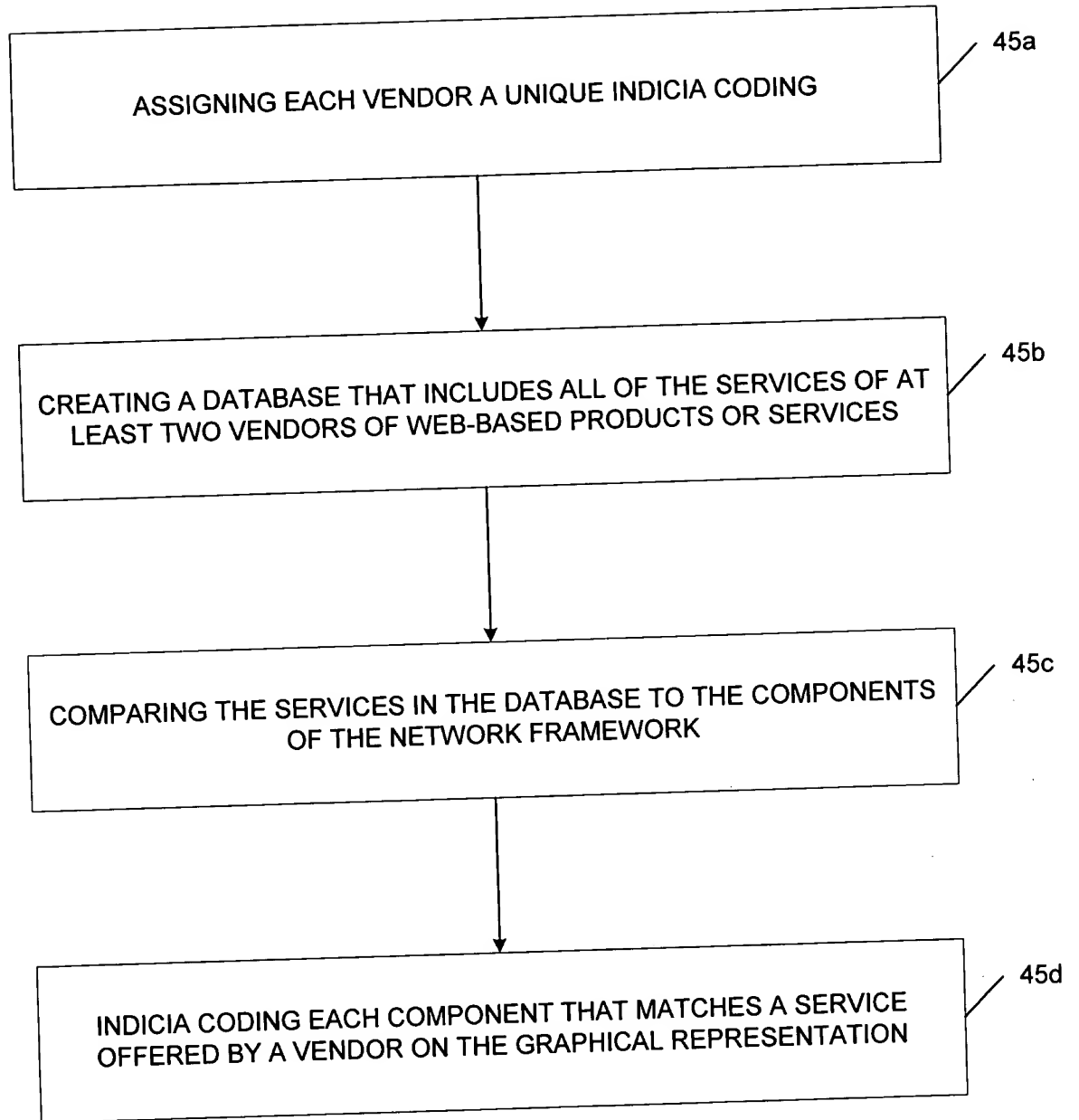


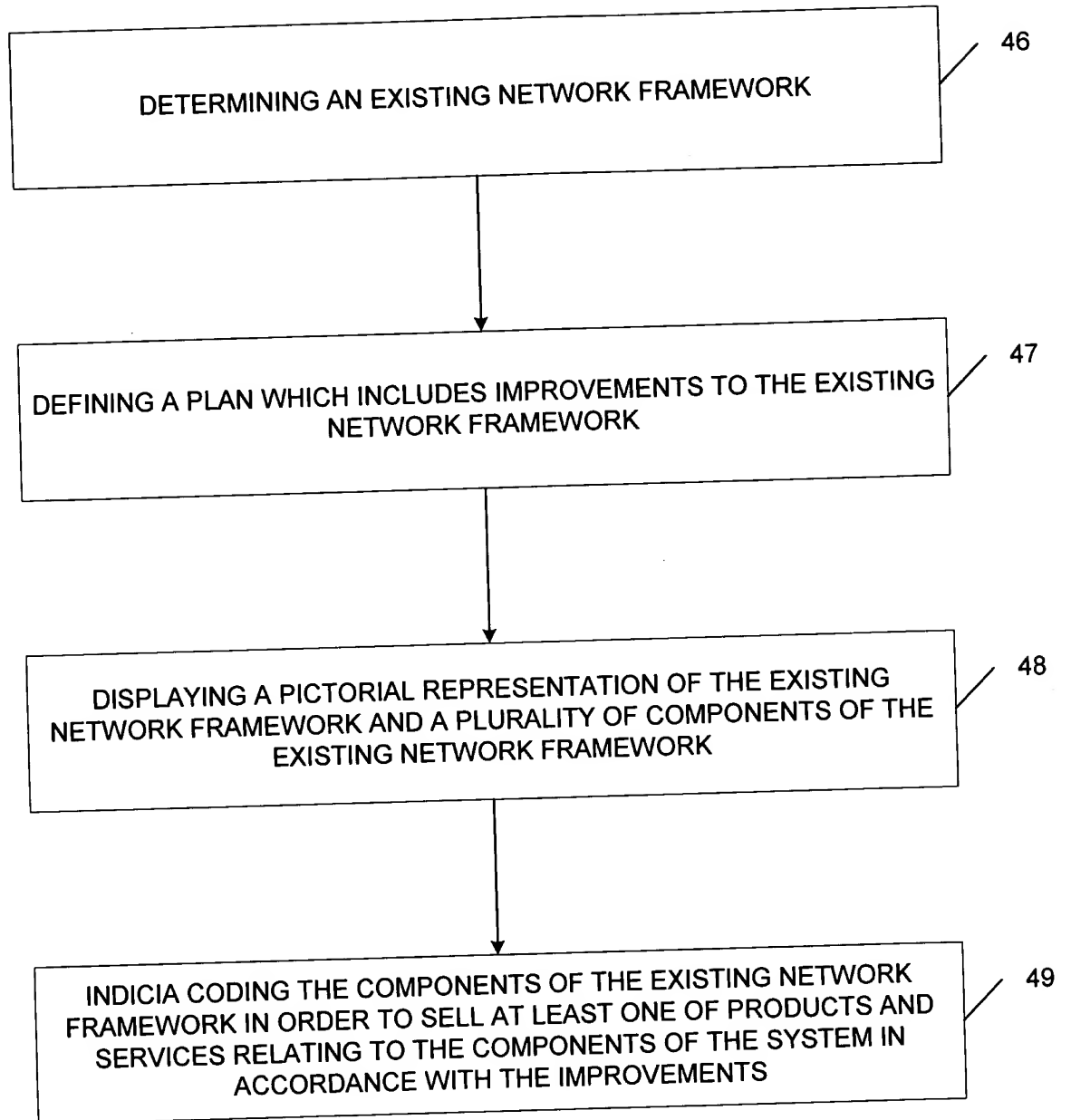
Figure 1F

FIG. 1F-1



45

Figure 1F-1



SECRET

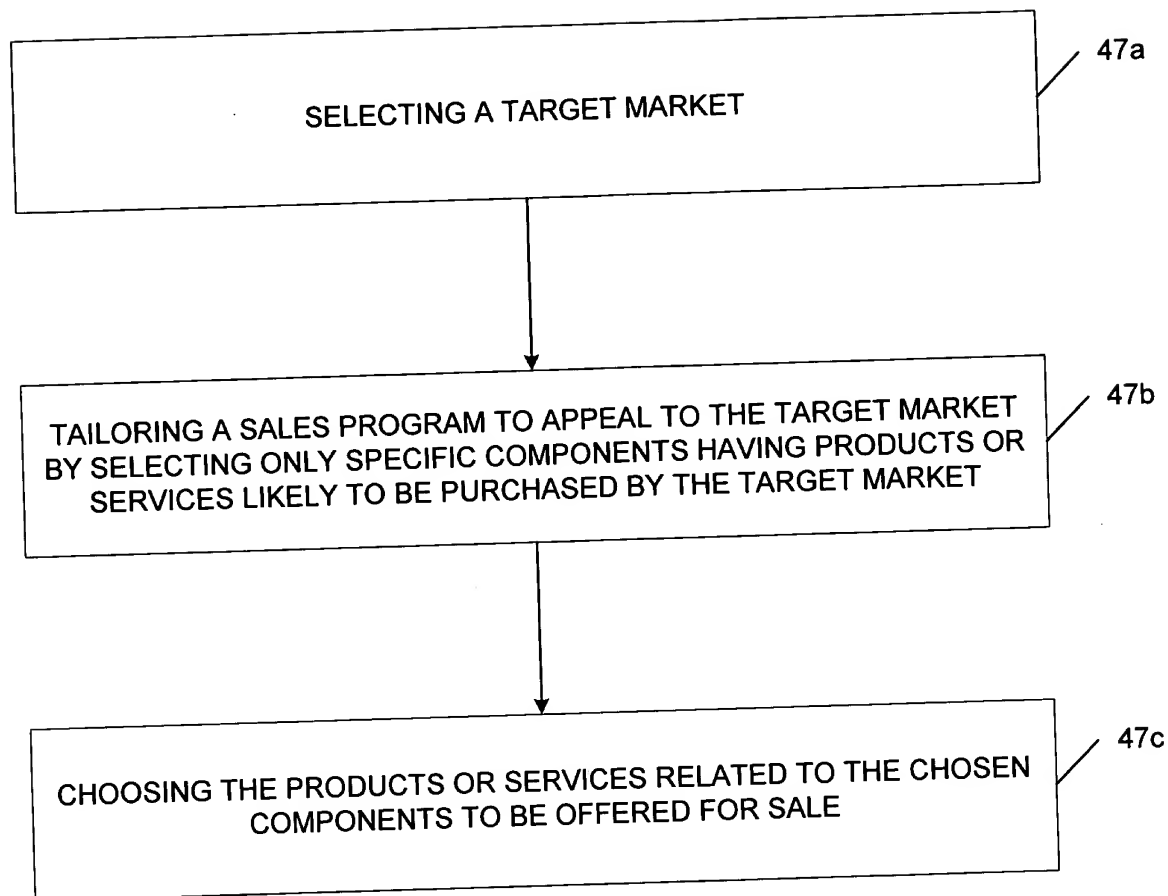
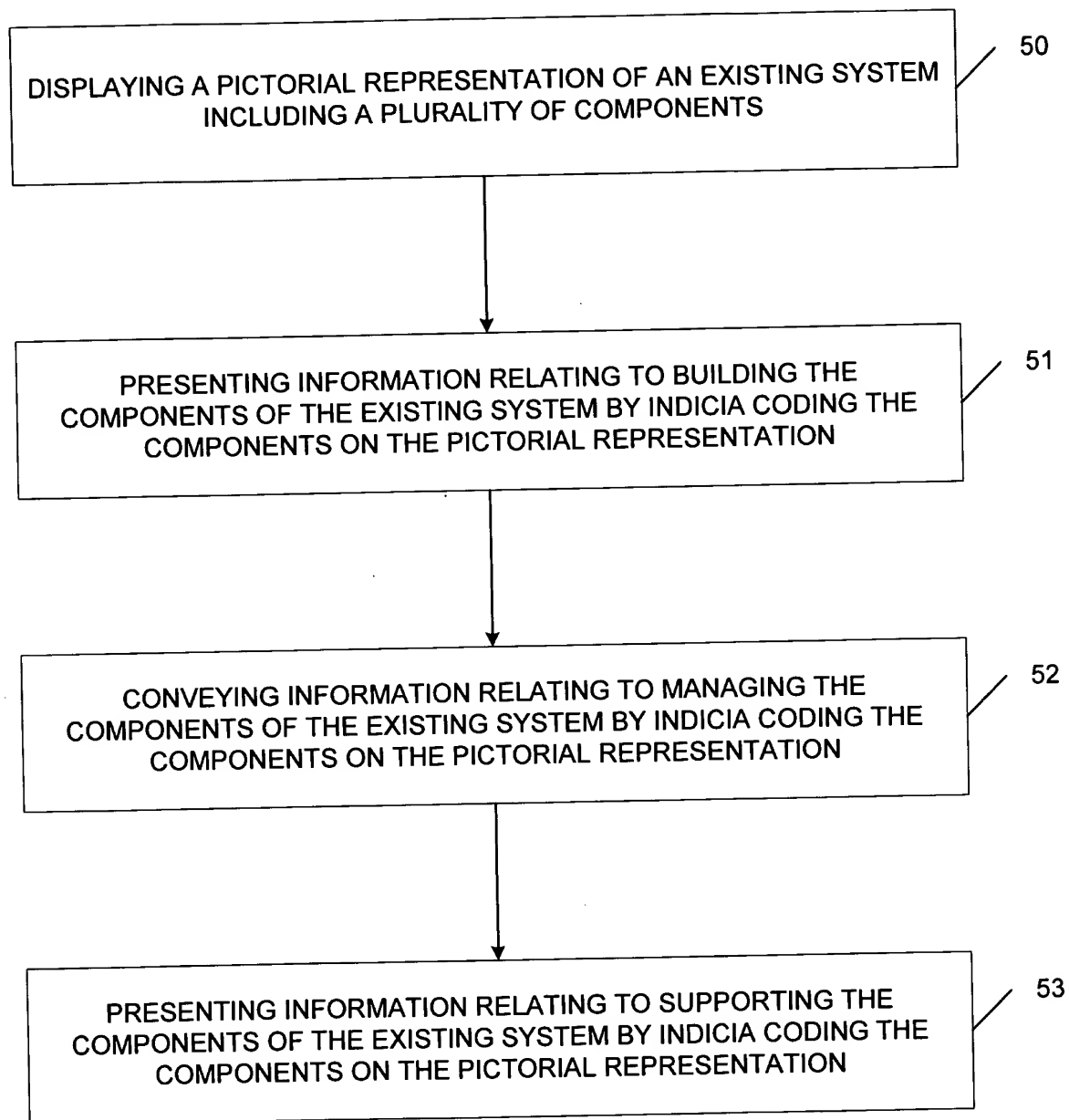


Figure 1G-1

47

64,650-038F2E60



51
51a
51b
51c
51d

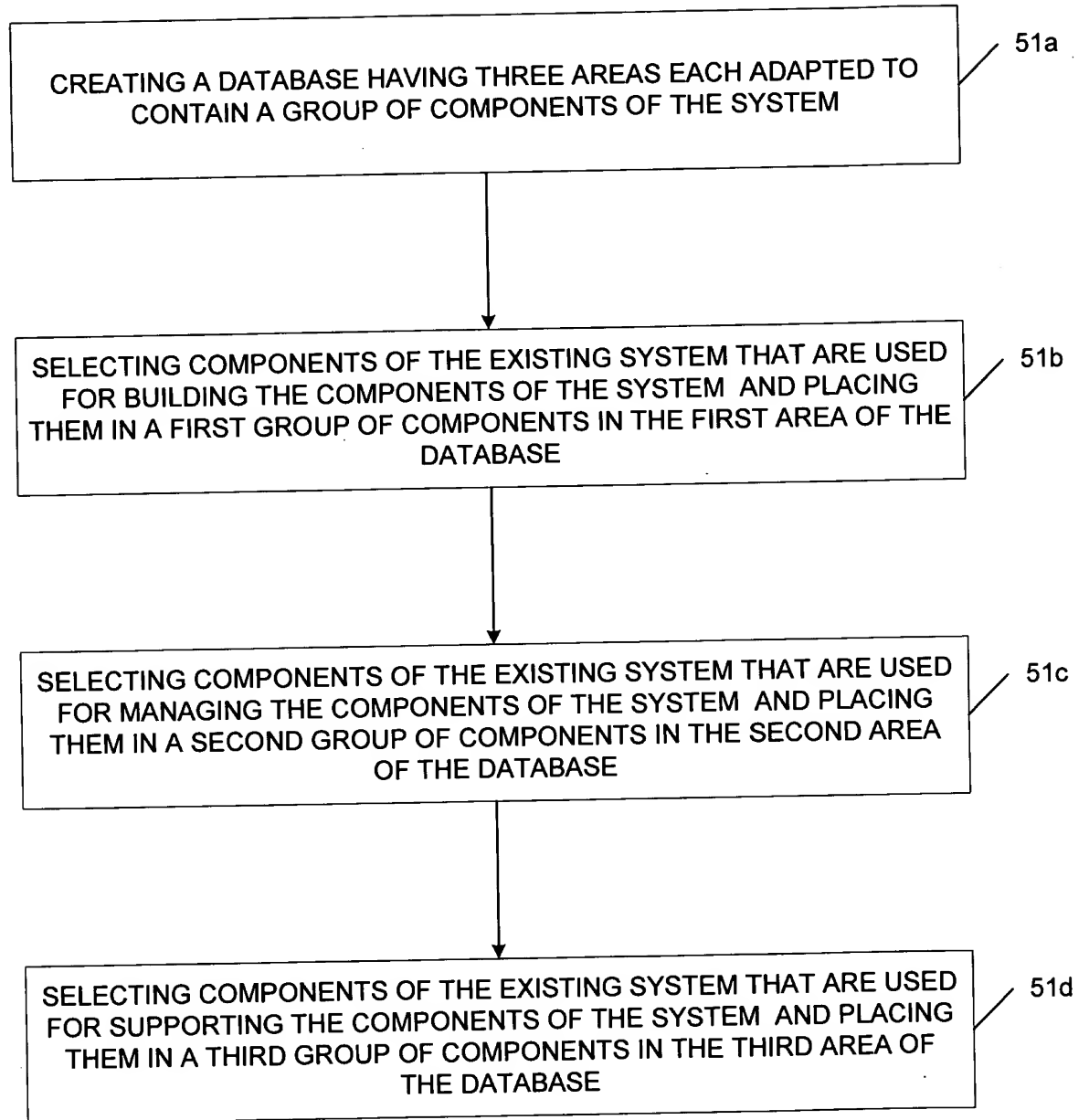


Figure 1H-1

63250-037260

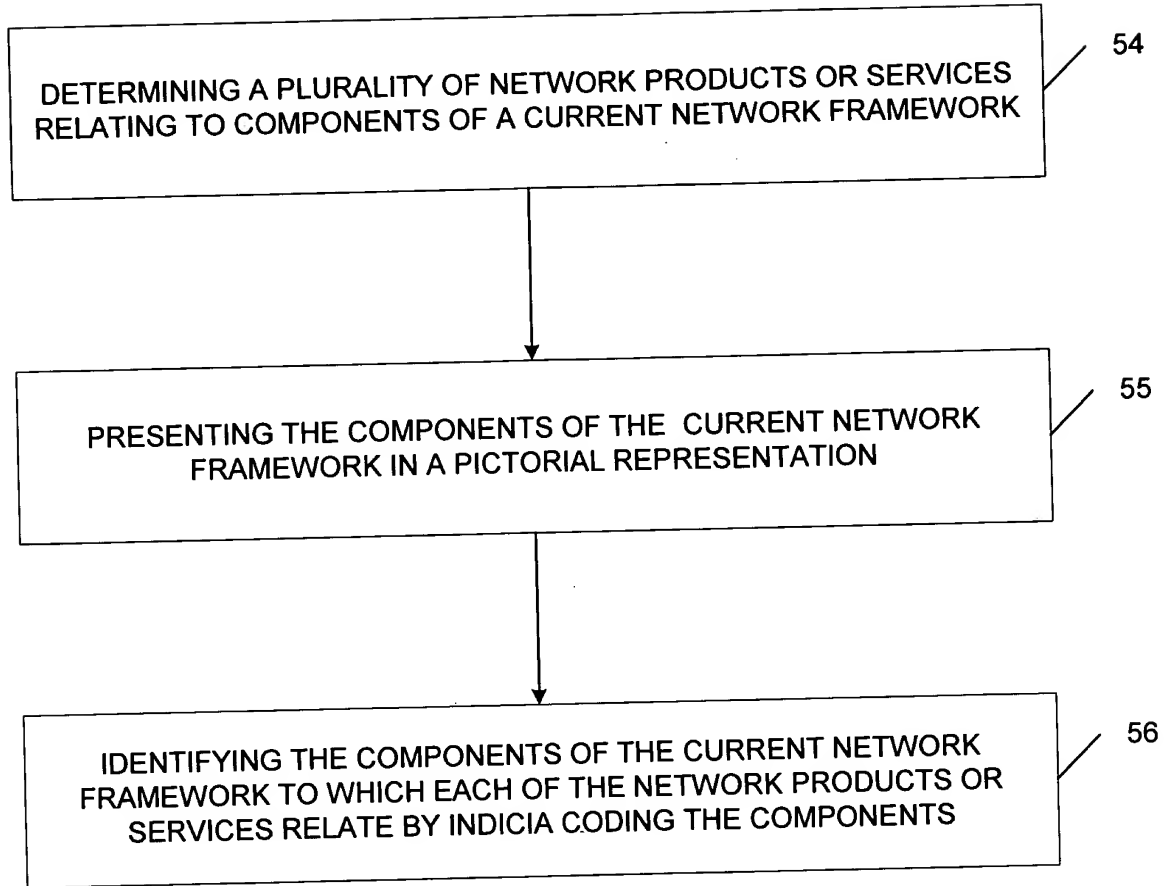


Figure 11

56a 56b 56c 56d 56e

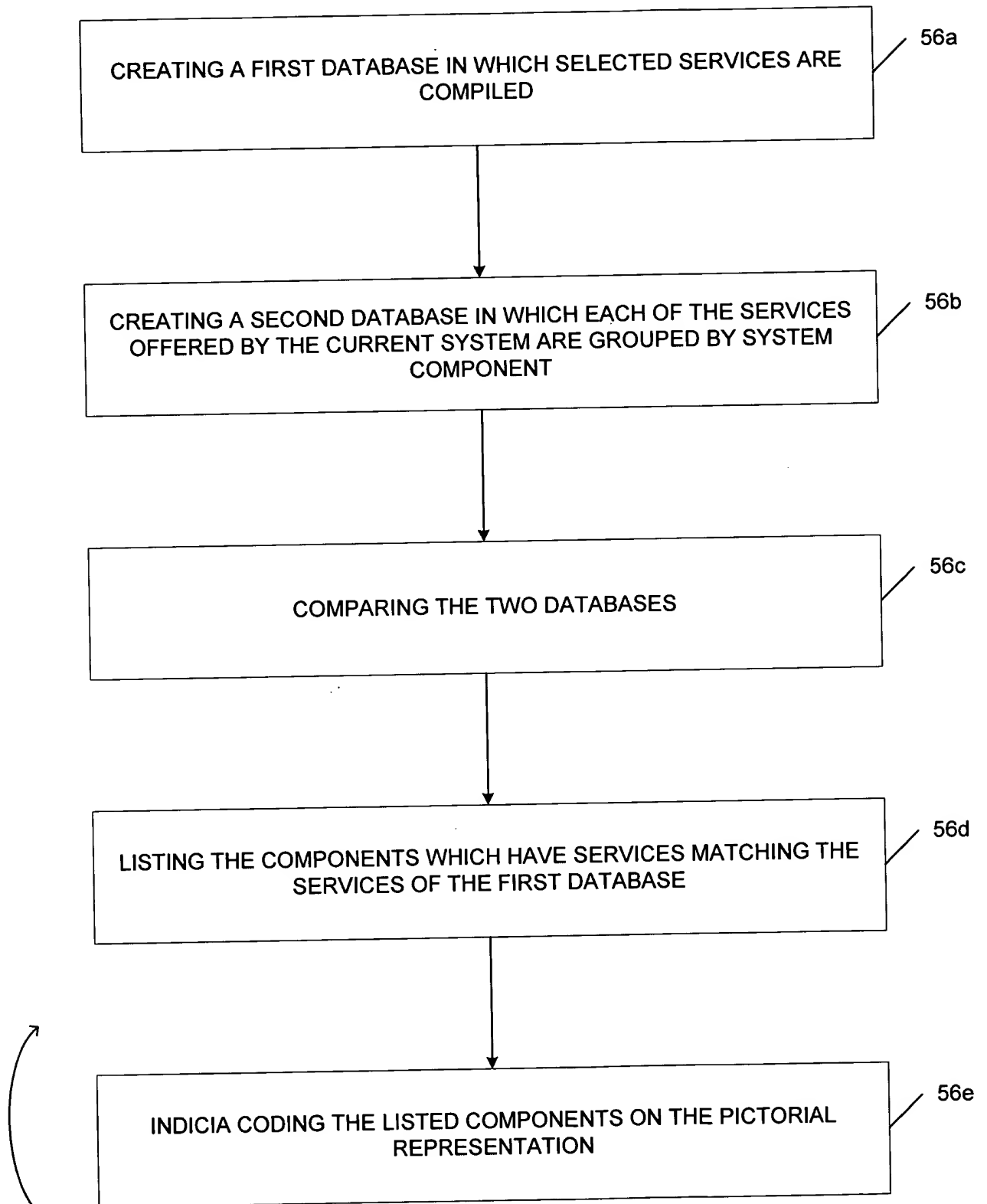


Figure 11-1

IDENTIFYING AT LEAST ONE ALLIANCE AMONG A PLURALITY OF
BUSINESS ENTITIES IN TERMS OF COMPONENTS OF A CURRENT
NETWORK FRAMEWORK

DISPLAYING A PICTORIAL REPRESENTATION OF THE CURRENT NETWORK FRAMEWORK AND THE COMPONENTS

CONVEYING THE AT LEAST ONE ALLIANCE BY INDICIA CODING THE COMPONENTS OF THE CURRENT NETWORK FRAMEWORK IN WHICH THE AT LEAST ONE ALLIANCE EXISTS

Figure 1J

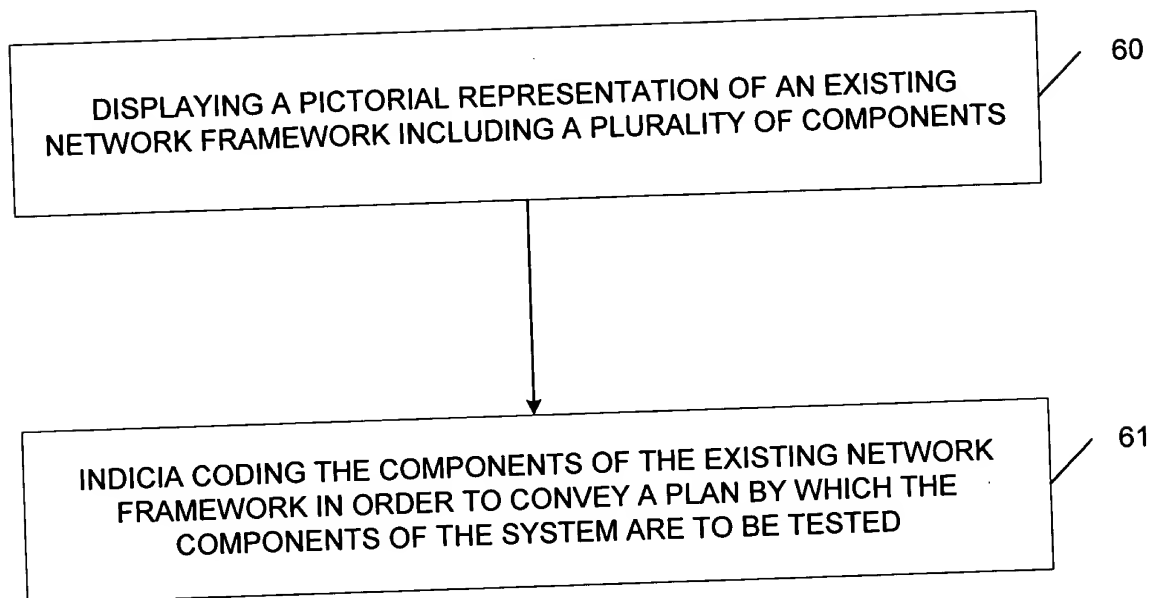


Figure 1K

30

61a 61b 61c

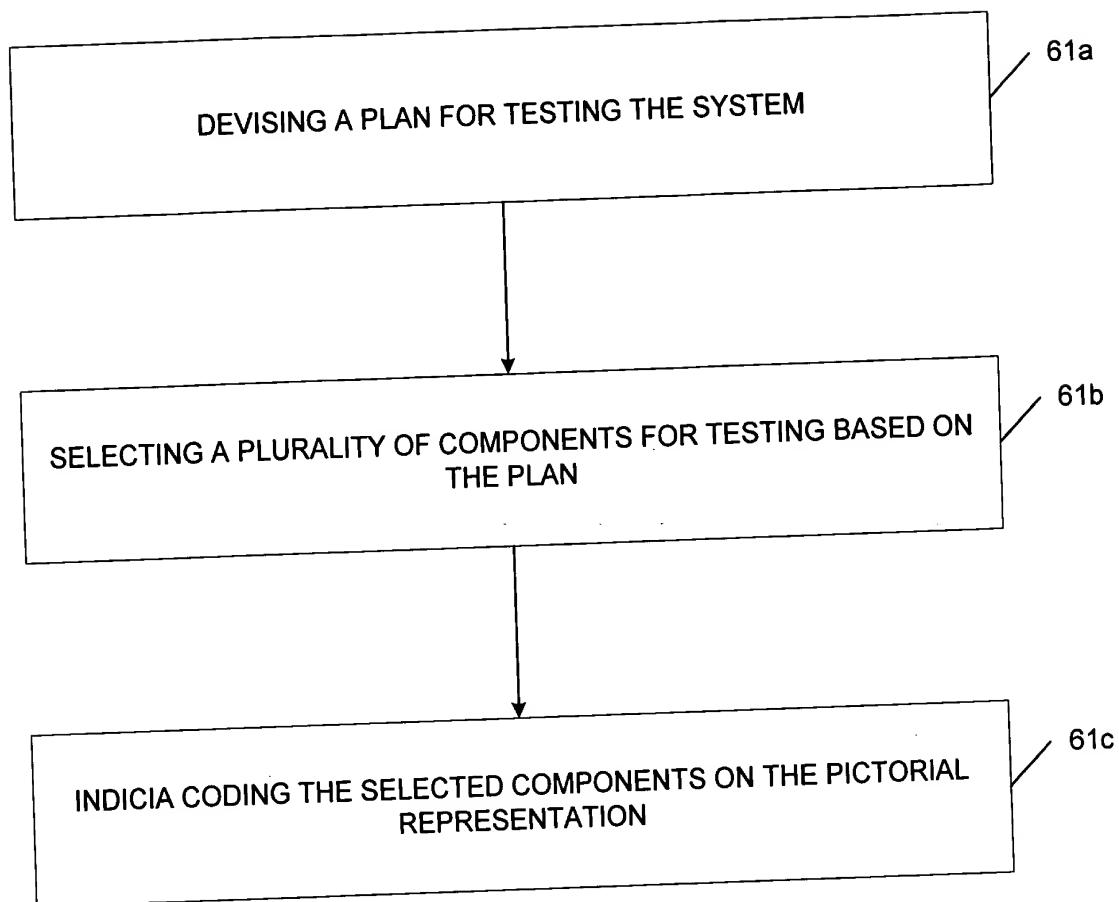


Figure 1K-1

61

Web Architecture Framework – Base Chart

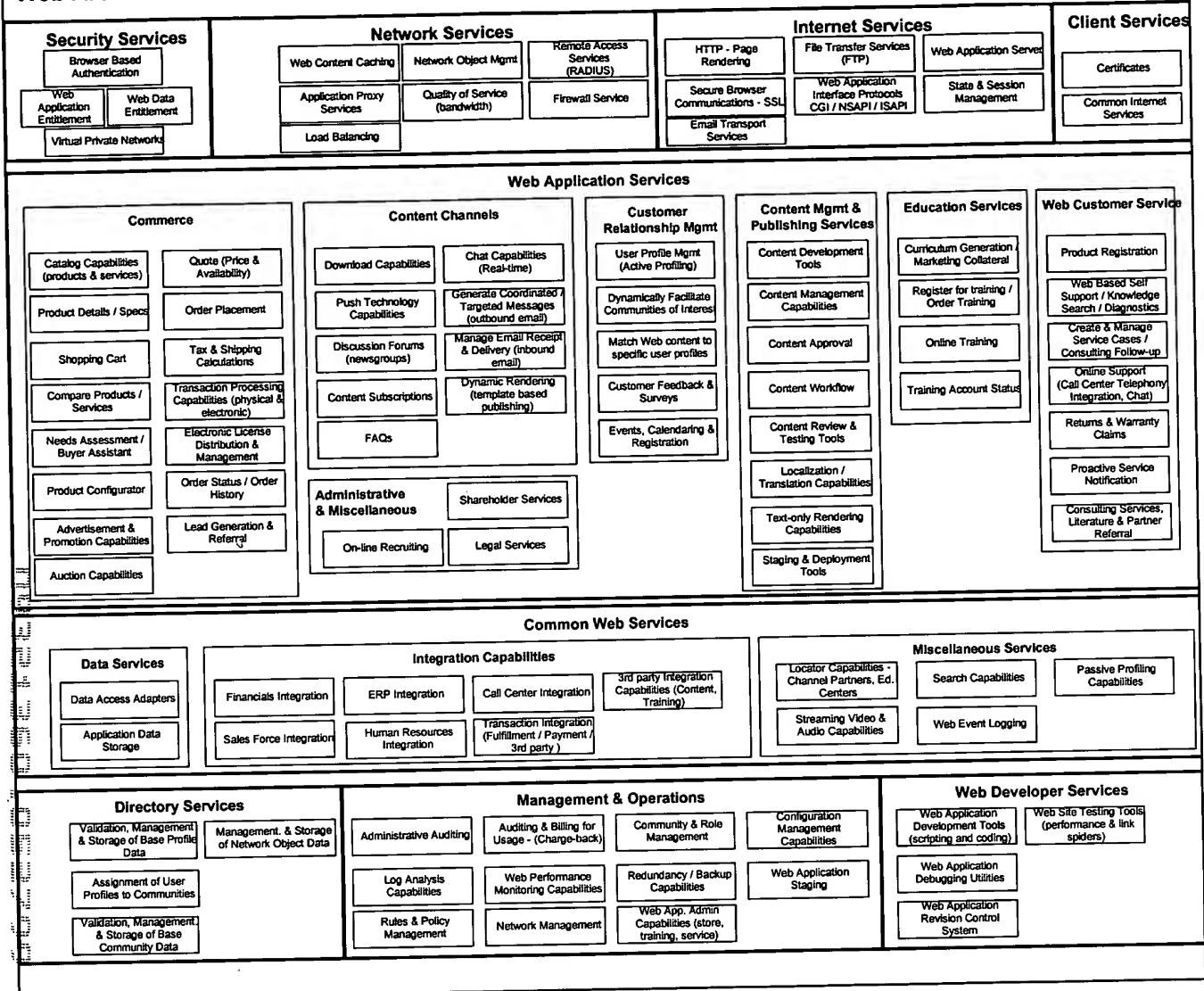


Figure 1L

654004260

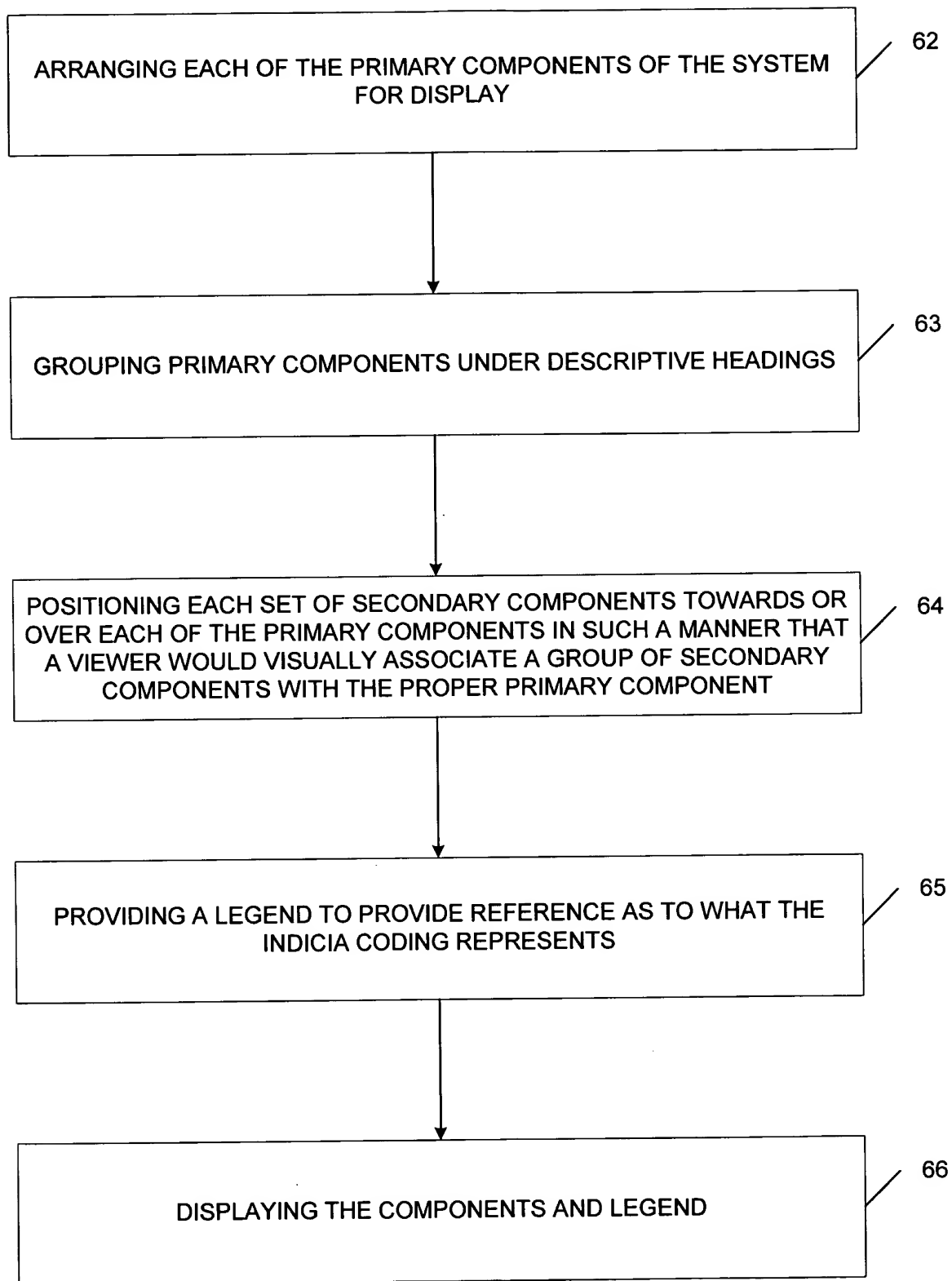


Figure 1L-1

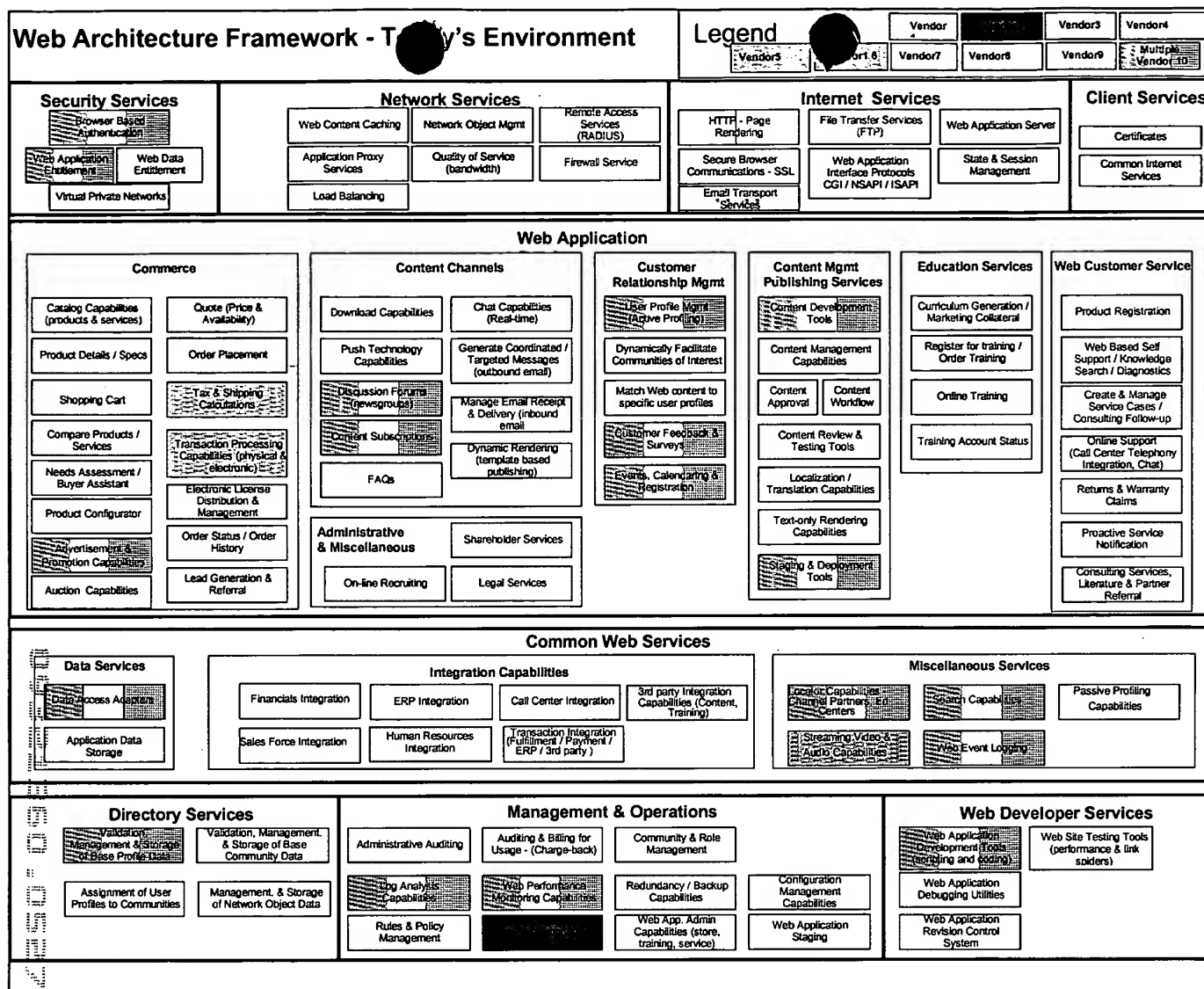


Figure 1M

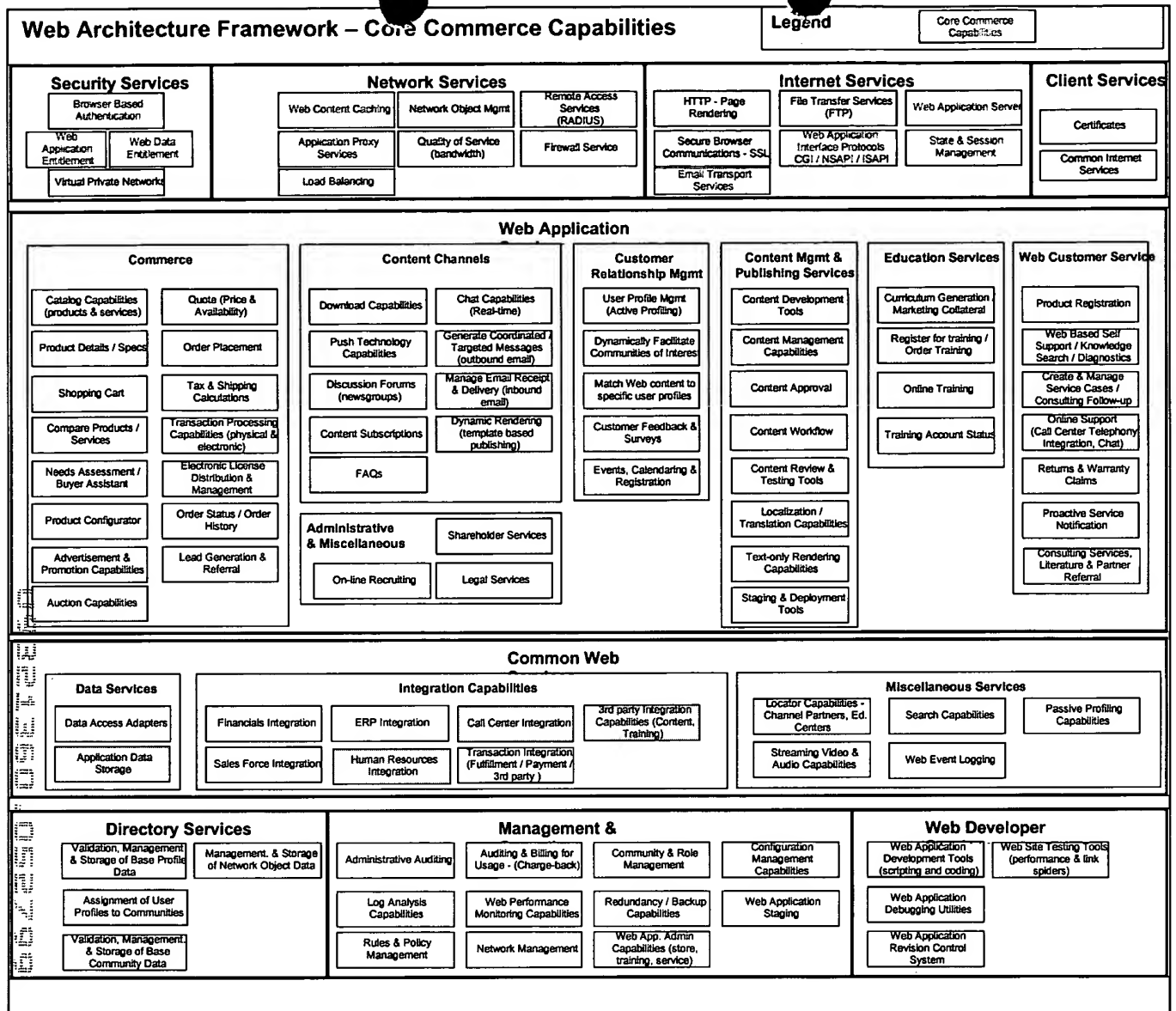


Figure 1N

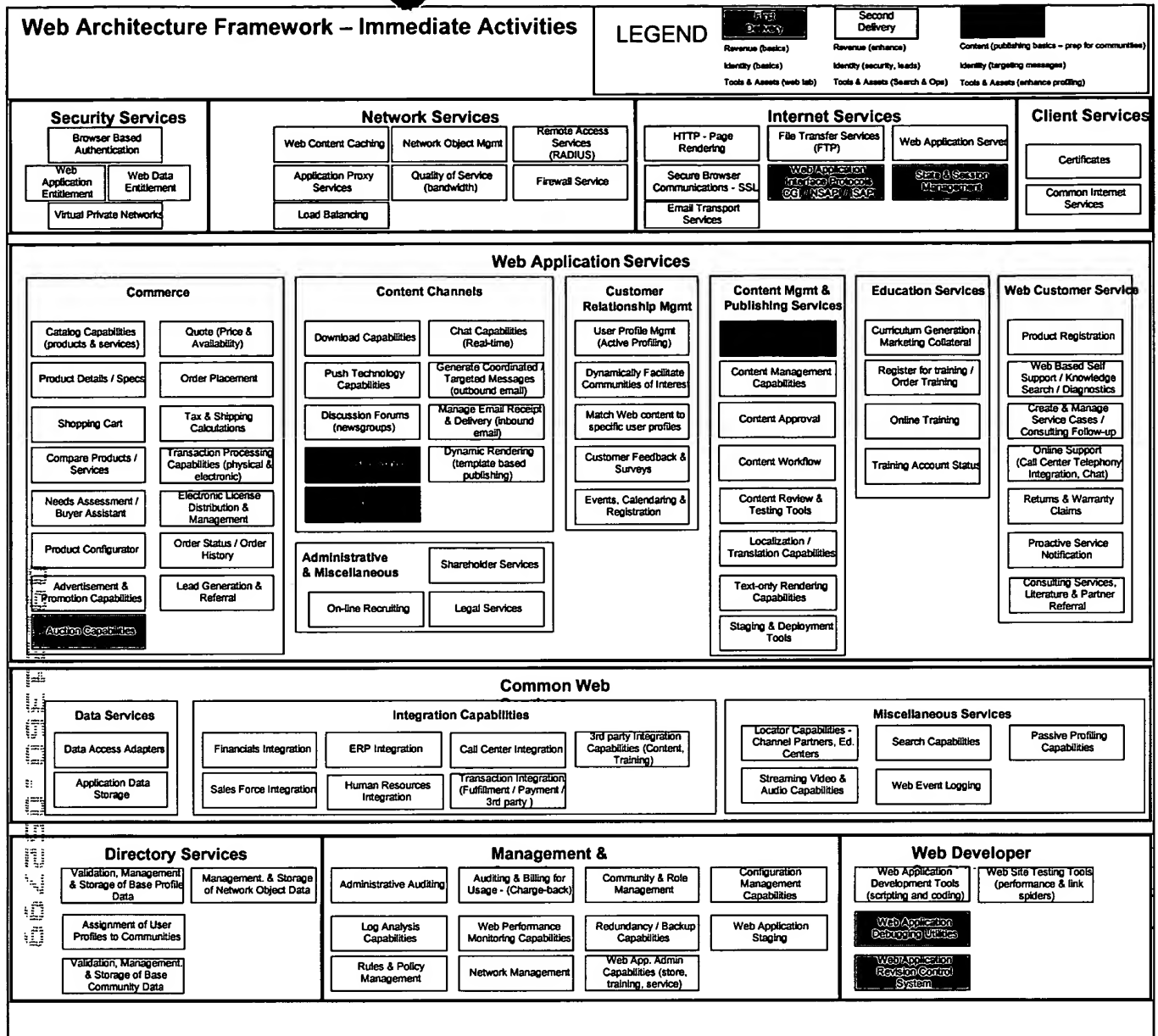


Figure 1P

Core Commerce Capabilities - Infrastructure Services

Legend: ■ Available Today

Core Capabilities Existing Capabilities

Browser Based Authentication	<input type="checkbox"/> Verifies user identity using built-in browser functionality <input type="checkbox"/> Maintains authentication information throughout sessions <input type="checkbox"/> Utilizes centralized directory of profiles <input type="checkbox"/> Provides LDAP compatibility <input type="checkbox"/> Provides NDS Compatibility
Web Application Entitlement	<input type="checkbox"/> Restricts access to specific web applications based upon user privileges <input type="checkbox"/> Determines if a user or group of users have permission to perform an operation in a specific application <input type="checkbox"/> Utilizes centralized directory of profiles for entitlement data <input type="checkbox"/> Provides LDAP compatibility <input type="checkbox"/> Provides NDS compatibility
Web Data Entitlement	<input type="checkbox"/> Restricts access to web content and data based upon user privileges <input type="checkbox"/> Determines if a user or group of users have permission to manipulate web data (create, read, update, delete) <input type="checkbox"/> Utilizes centralized directory of profiles for entitlement data <input type="checkbox"/> Provides LDAP compatibility <input type="checkbox"/> Provides NDS compatibility
Web Content Caching	<input checked="" type="checkbox"/> Stores frequently requested web pages and graphics in a temporary location <input checked="" type="checkbox"/> Serves up previously cached content without accessing original source <input checked="" type="checkbox"/> Updates cache automatically to ensure integrity of content
Application Reverse Proxy Services	<input checked="" type="checkbox"/> Passes requests from external clients to internal web servers and return results <input checked="" type="checkbox"/> Serves as trusted agent to access internal machines on the behalf of clients <input checked="" type="checkbox"/> Hides IP Addresses of machines inside a firewall from external clients <input checked="" type="checkbox"/> Provides configuration control over external access permissions
Load Balancing	<input type="checkbox"/> Spreads tasks among application servers using and intelligent load-balance scheme (CPU utilization) <input type="checkbox"/> Provides a centralized task distribution mechanism for routing services <input type="checkbox"/> Identifies servers that are off-line and re-route traffic
Firewall Service	<input checked="" type="checkbox"/> Protects resources on a private network from users of other networks <input checked="" type="checkbox"/> Filters network traffic based on security rules <input type="checkbox"/> Provides alarm notification of attacks <input type="checkbox"/> Provides logging and reporting functions <input checked="" type="checkbox"/> Provides port and traffic control
HTTP - Page Rendering	<input checked="" type="checkbox"/> Serves requested web pages and graphics from web servers to client web browsers <input type="checkbox"/> Supports page rendering for multiple languages <input checked="" type="checkbox"/> Supports multiple content sources (file system, databases, scripts)

Core Capabilities Existing Capabilities

Secure Browser Communications - SSL	<input checked="" type="checkbox"/> Provides encrypted communication with common web browsers <input checked="" type="checkbox"/> Supports the Secure Sockets Layer protocol 2.0 <input checked="" type="checkbox"/> Supports the Secure Sockets Layer protocol 3.0
File Transfer Services (FTP)	<input checked="" type="checkbox"/> Transfers files between computers on the Internet using the standard File Transfer Protocol (FTP) <input checked="" type="checkbox"/> Stores files on a file system or database <input checked="" type="checkbox"/> Provides mechanism to manage access control for files on a FTP server
Web Application Interface Protocols CGI/NSAPI/ISAPI	<input checked="" type="checkbox"/> Supports Common Gateway Interface (CGI) protocol <input checked="" type="checkbox"/> Supports Netscape' API (NSAPI) protocol <input checked="" type="checkbox"/> Supports Microsoft's API (ISAPI) protocol <input type="checkbox"/> Provides alternative to the interface mechanism that may be used
Web Application Server Plug-in	<input type="checkbox"/> Executes web application logic <input type="checkbox"/> Utilizes user session information to support interactive applications <input type="checkbox"/> Provides scalability features <input type="checkbox"/> Provides fail-over features <input type="checkbox"/> Provides application programming logic
State and Session Management	<input checked="" type="checkbox"/> Provides mechanism to note and remember one or more preceding events in a given sequence of interactions with the user or application <input type="checkbox"/> Tracks state and session information <input type="checkbox"/> Manages multiple independent sessions simultaneously active <input checked="" type="checkbox"/> Supports Client Cookies <input type="checkbox"/> Supports Client URL Encoding <input checked="" type="checkbox"/> Supports Server Information with Client Cookies <input checked="" type="checkbox"/> Supports Server Information with URL Session Identifiers
Oracle Financials Integration	<input type="checkbox"/> Provides adapter or mechanism to communicate and transfer data at the functional level with Oracle Financials via API's <input type="checkbox"/> Supports Oracle's API sets for external integration <input type="checkbox"/> Supports Data Access Adapter capabilities
SIEBEL Integration	<input type="checkbox"/> Provides adapter or mechanism to communicate and transfer data at the functional level with Siebel via API's <input type="checkbox"/> Supports Siebel's API sets for external integration <input type="checkbox"/> Supports Data Access Adapter capabilities
Transaction Integration (Fulfillment/Payment/ERP/3rd Party)	<input checked="" type="checkbox"/> Provides adapter or mechanism to transfer transactional information to a fulfillment house, payment processing center, enterprise resource planning system or other third party <input checked="" type="checkbox"/> Provides reporting and logging functions to detect communication errors
3rd Party Integration Capabilities (Content, Training)	<input type="checkbox"/> Provides adapter or mechanism to communicate with external systems that provide additional content such as catalog information <input type="checkbox"/> Provides reporting and logging functions to detect communication errors

Figure 1Q

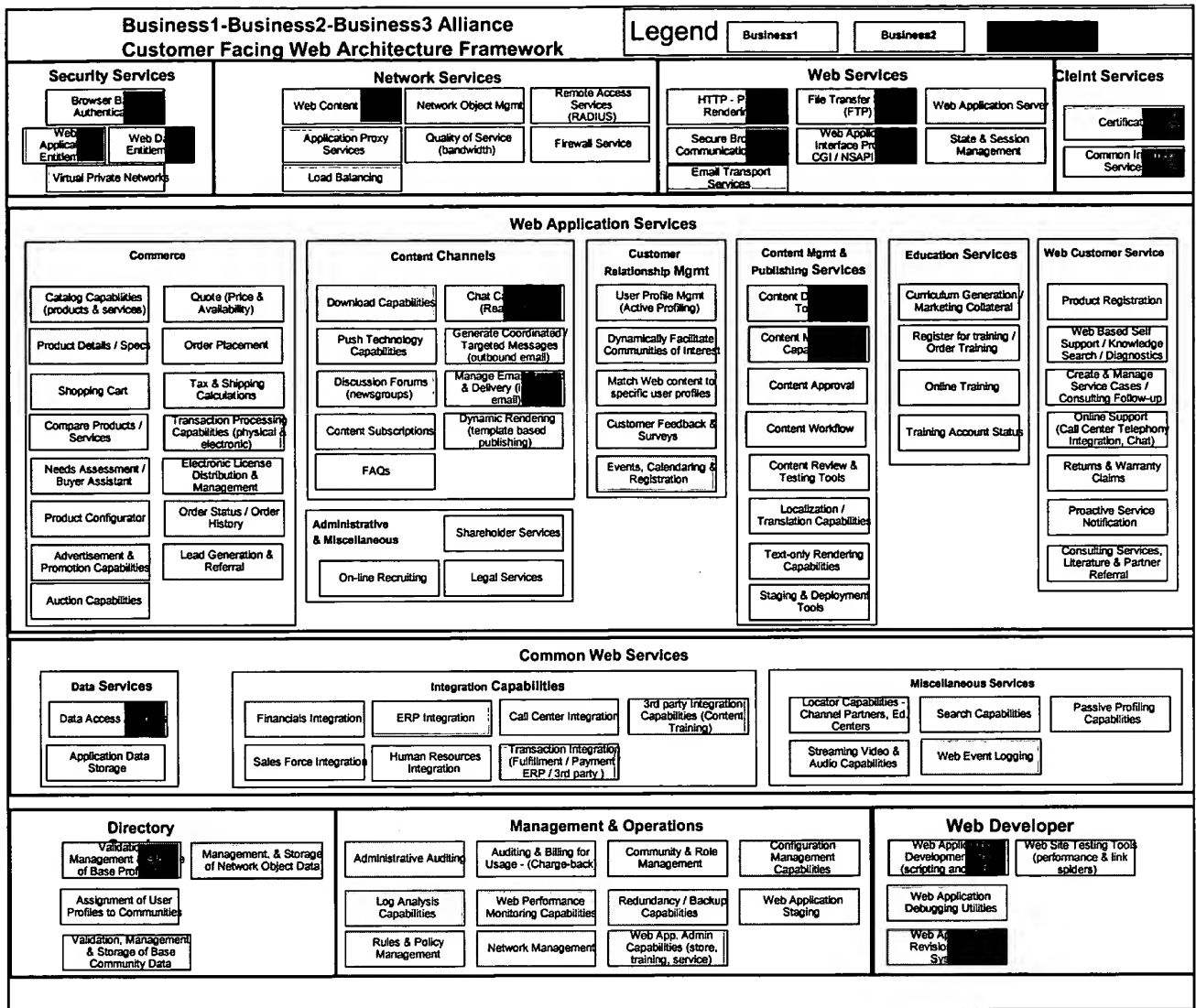


Figure 1R

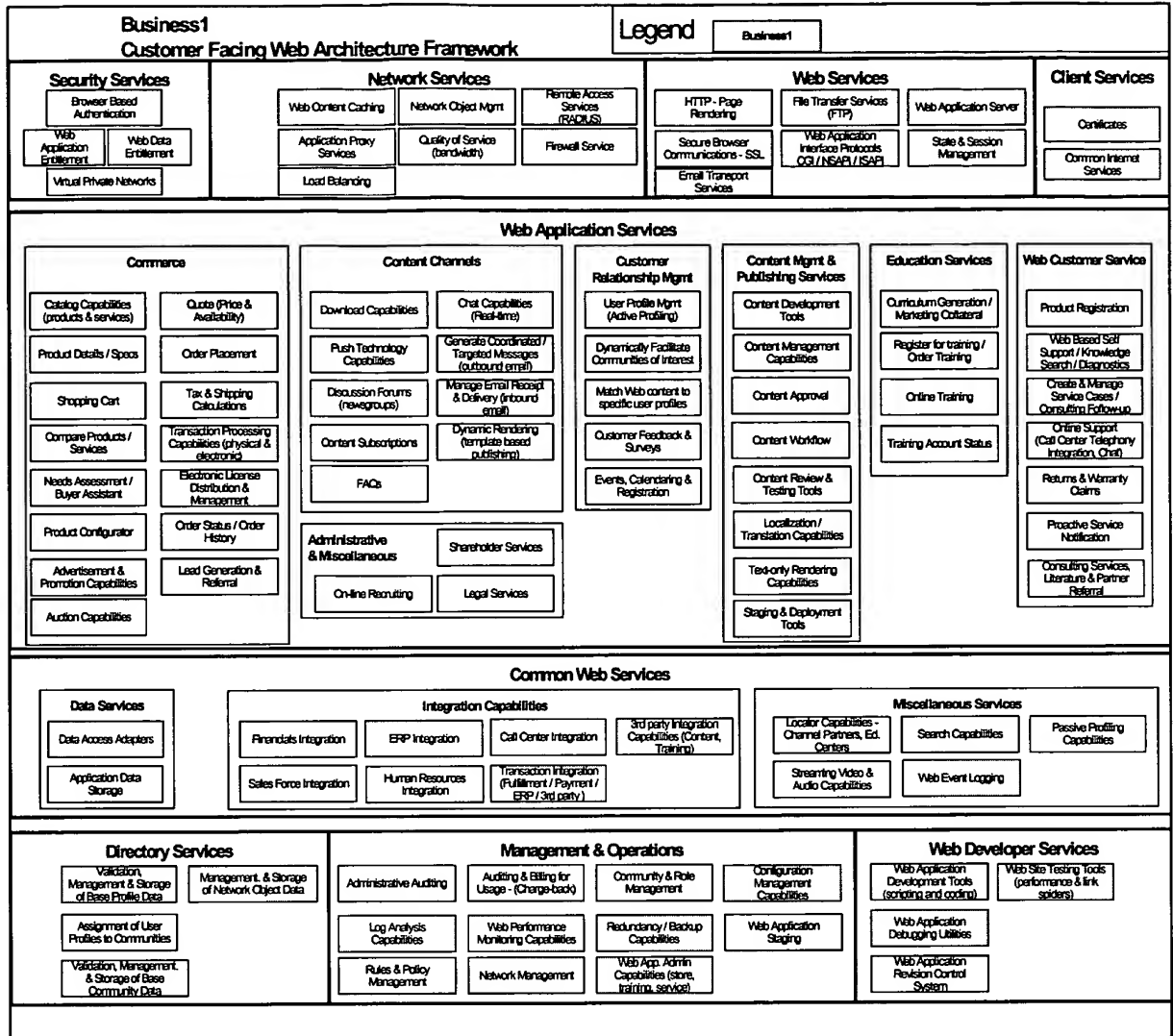


Figure 1S

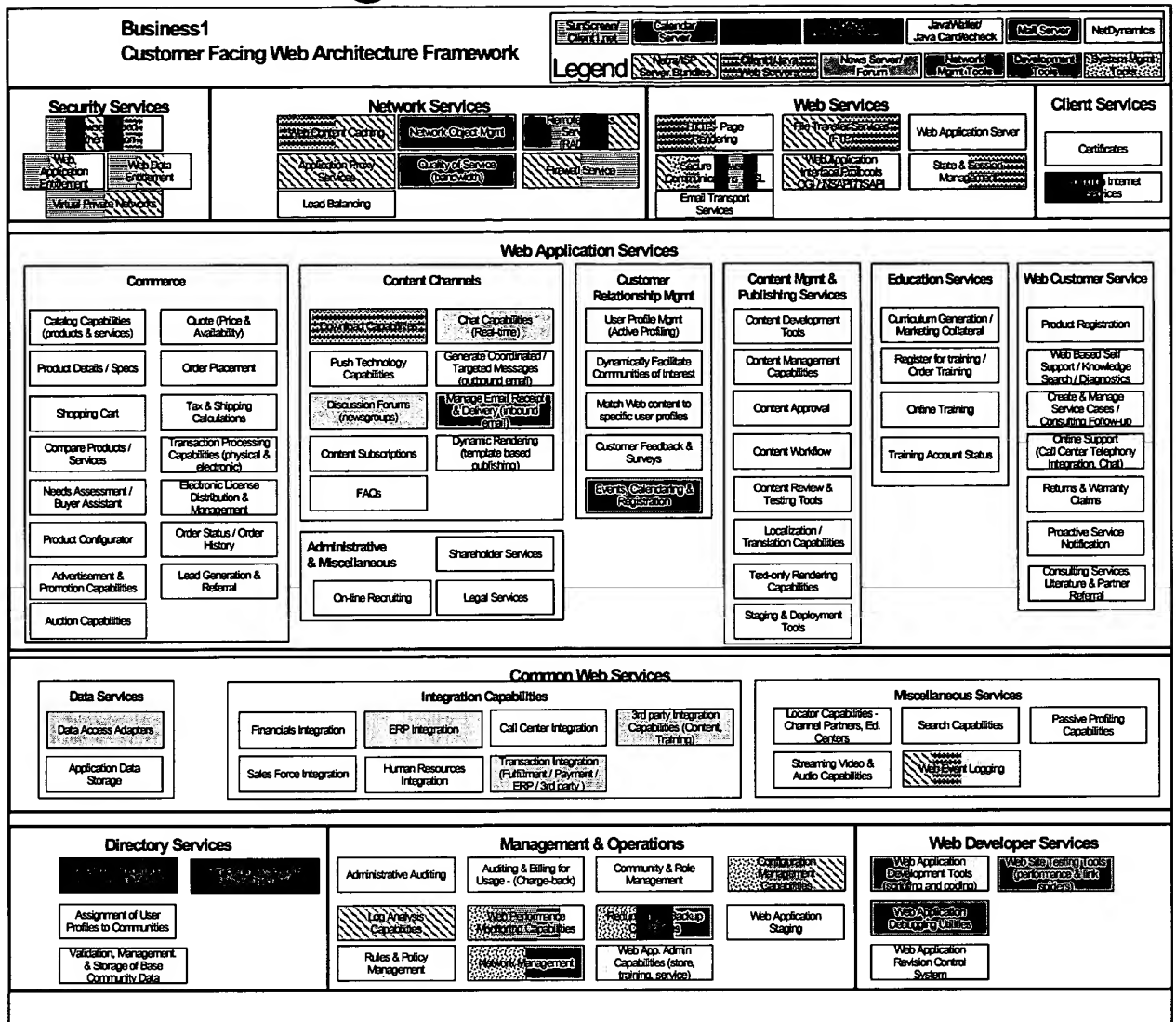


Figure 1T

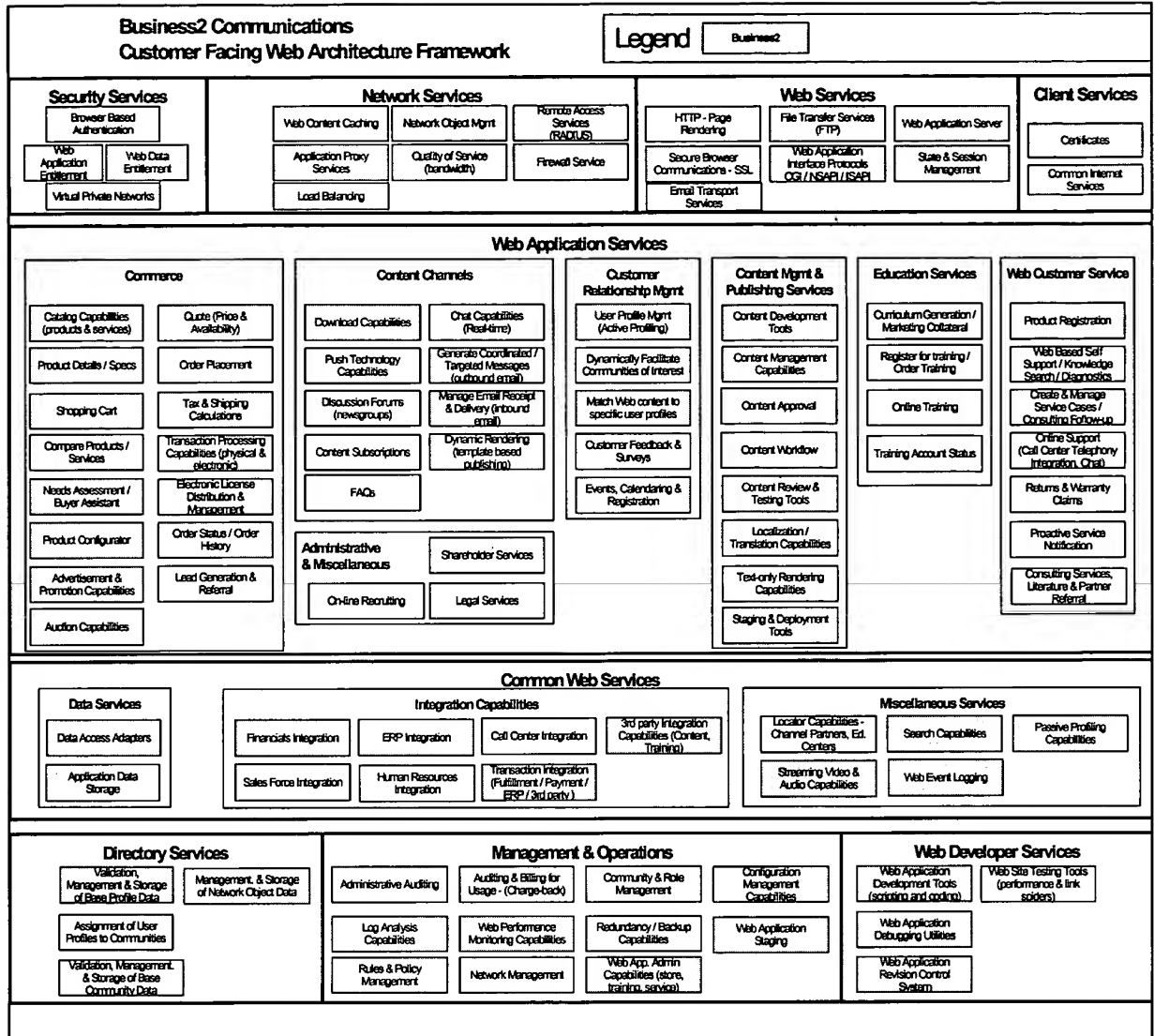


Figure 1U

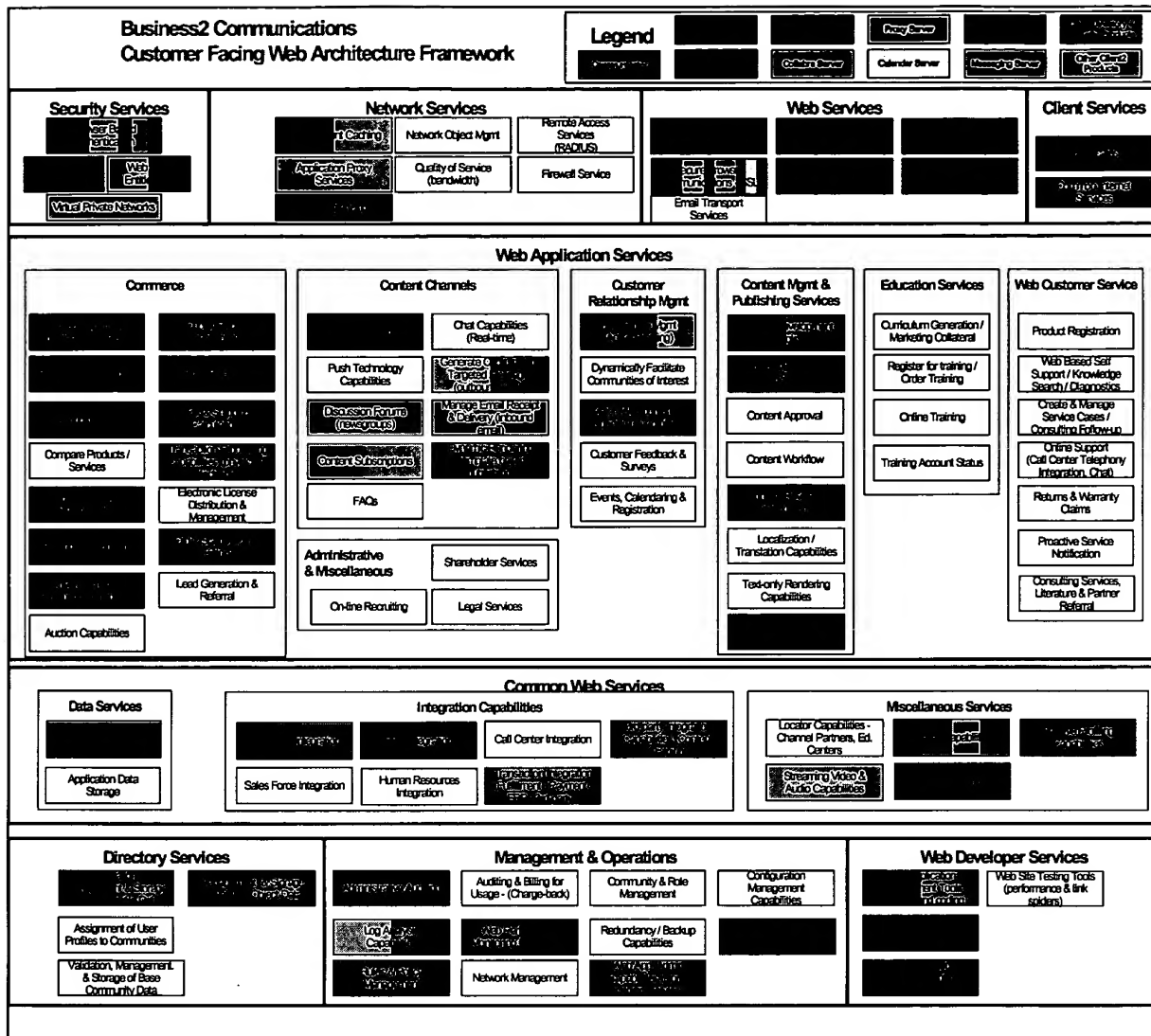


Figure 1V

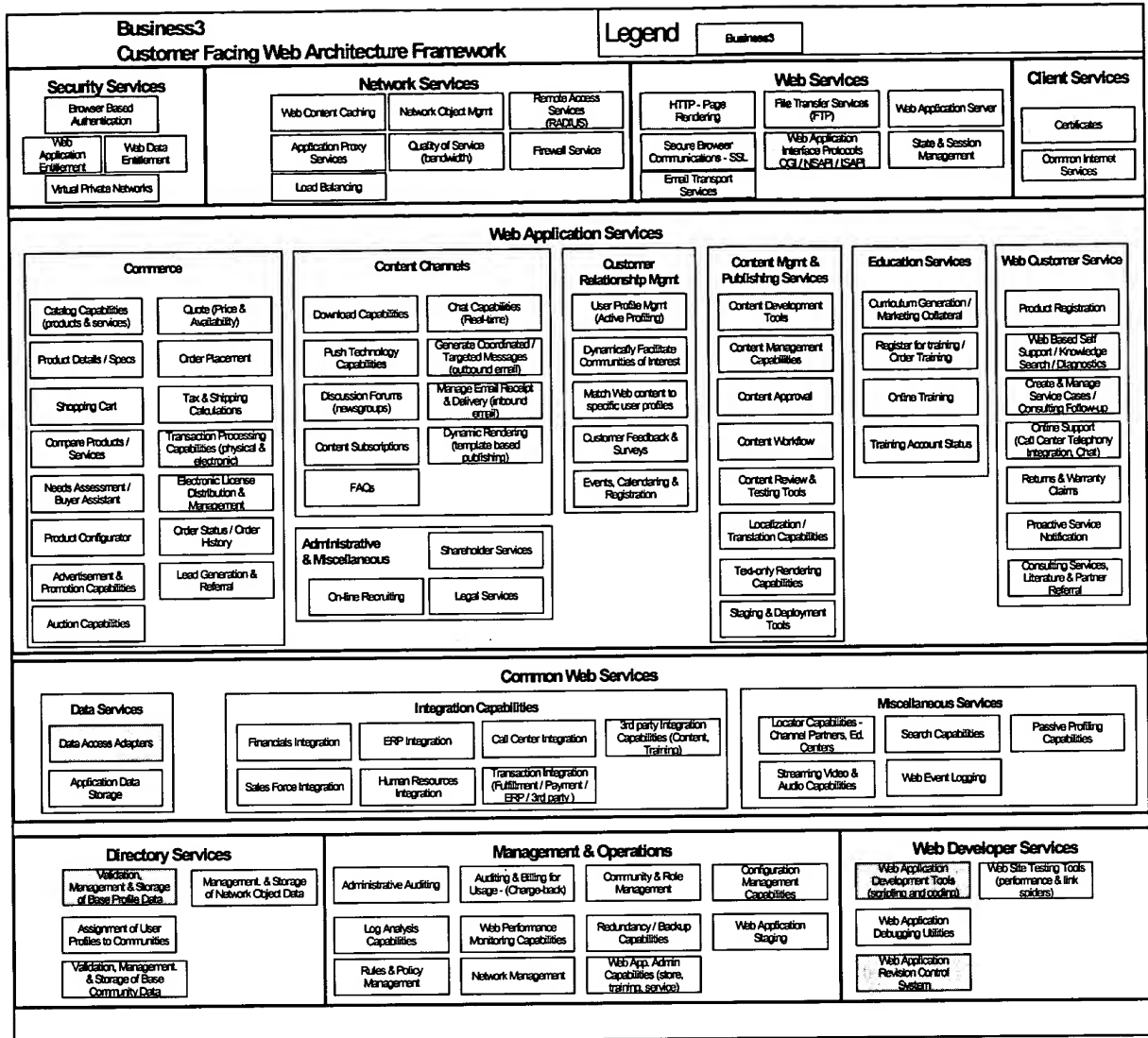


Figure 1W

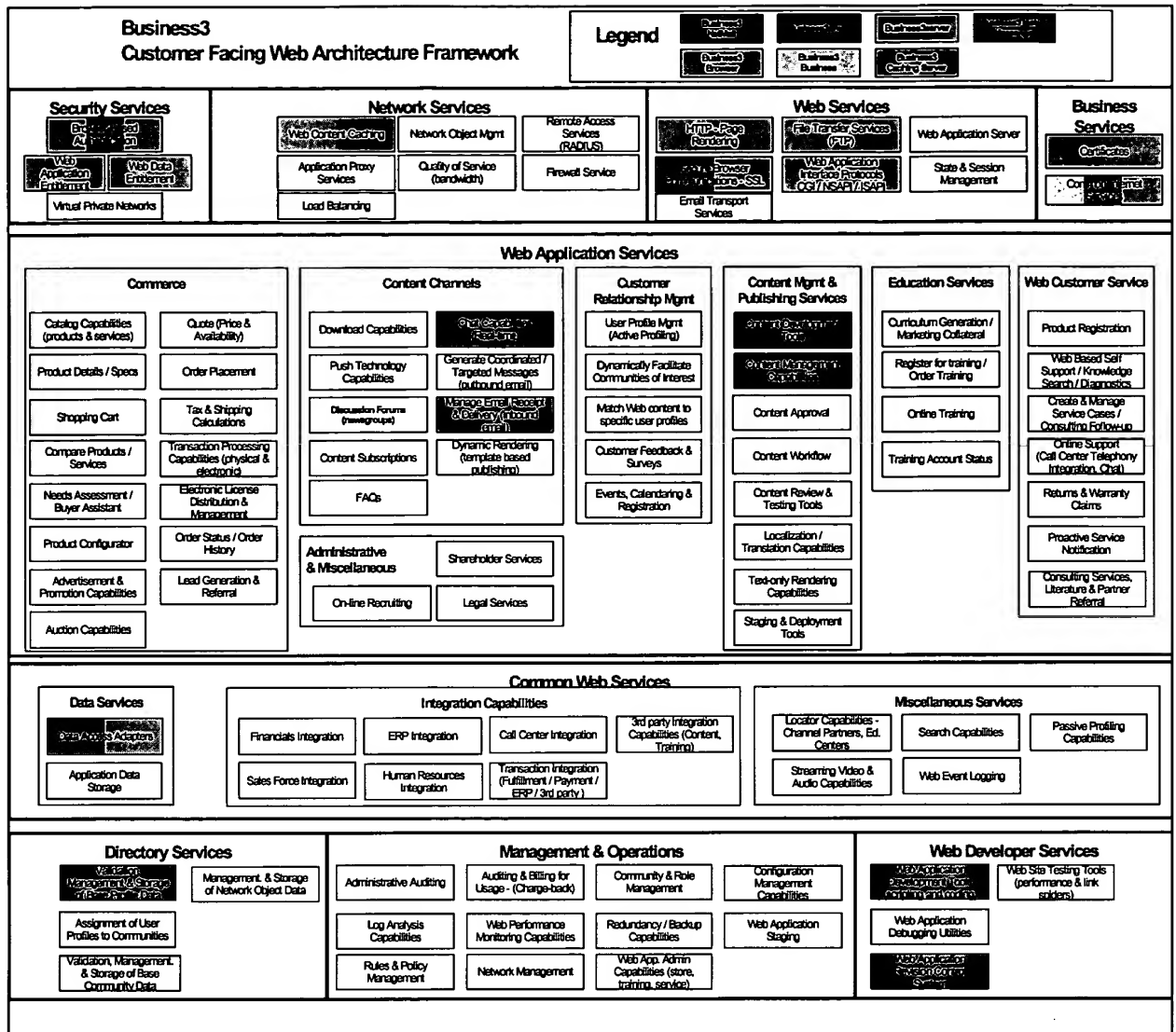


Figure 1X

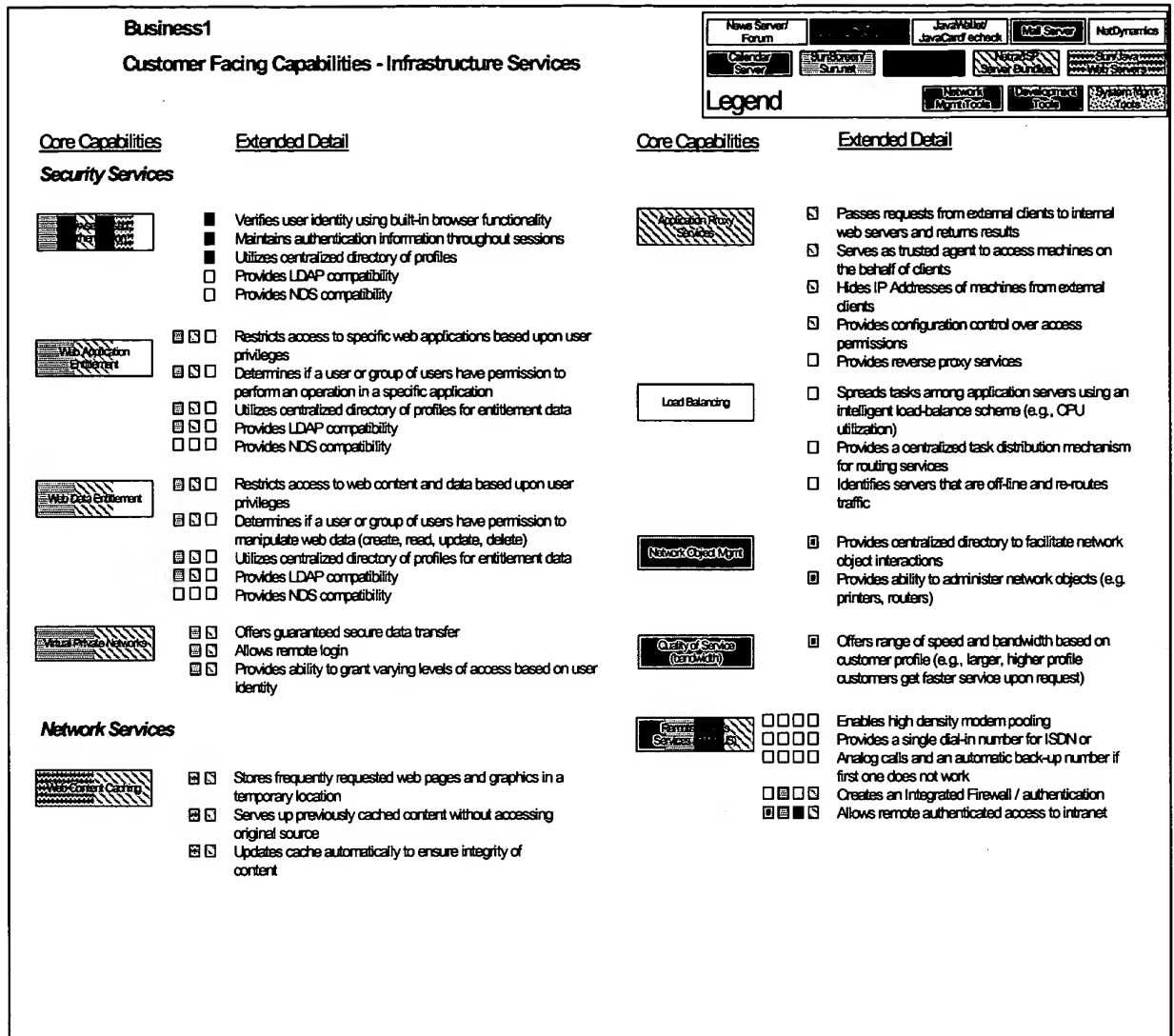


Figure 1Y

Client2 Application Server

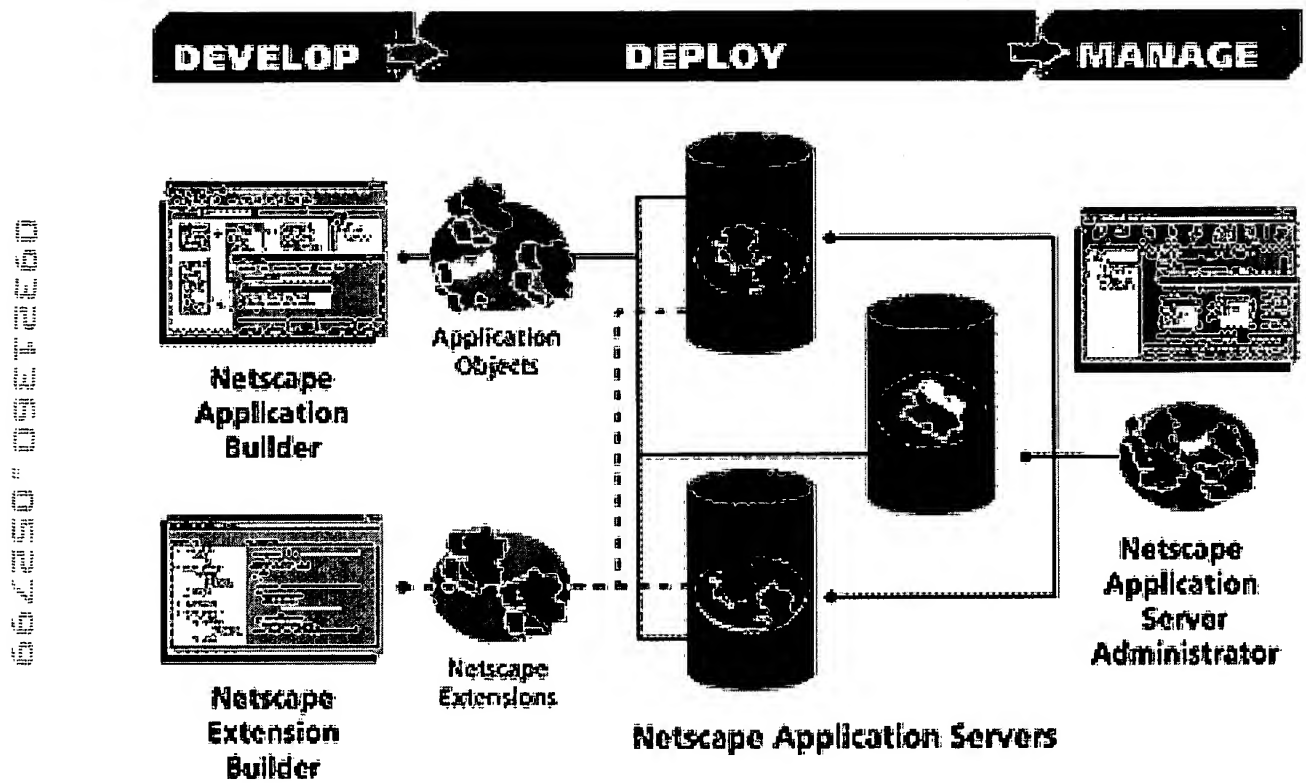


Figure 1Z

Client2 Application Server

00224360-000000

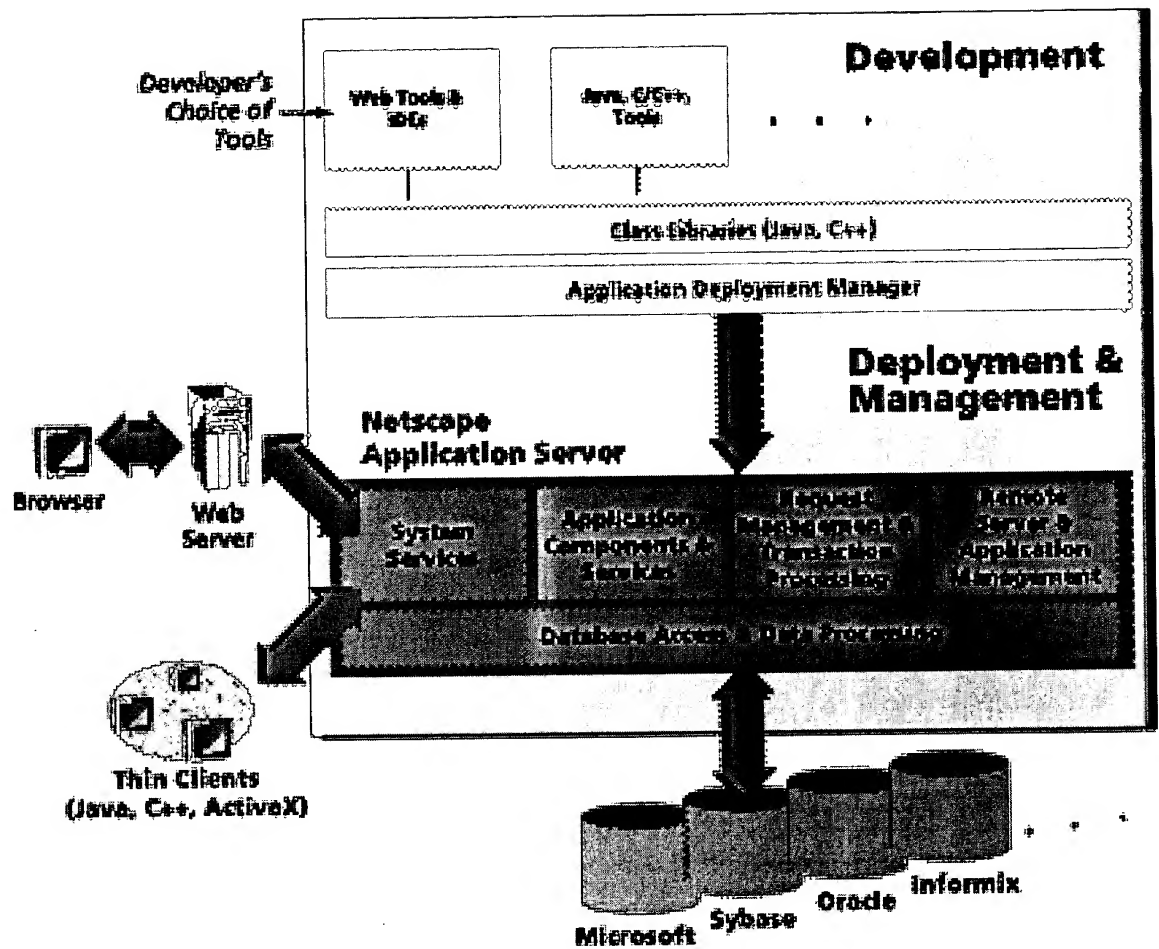


Figure 1AA

Client2 ECXpert

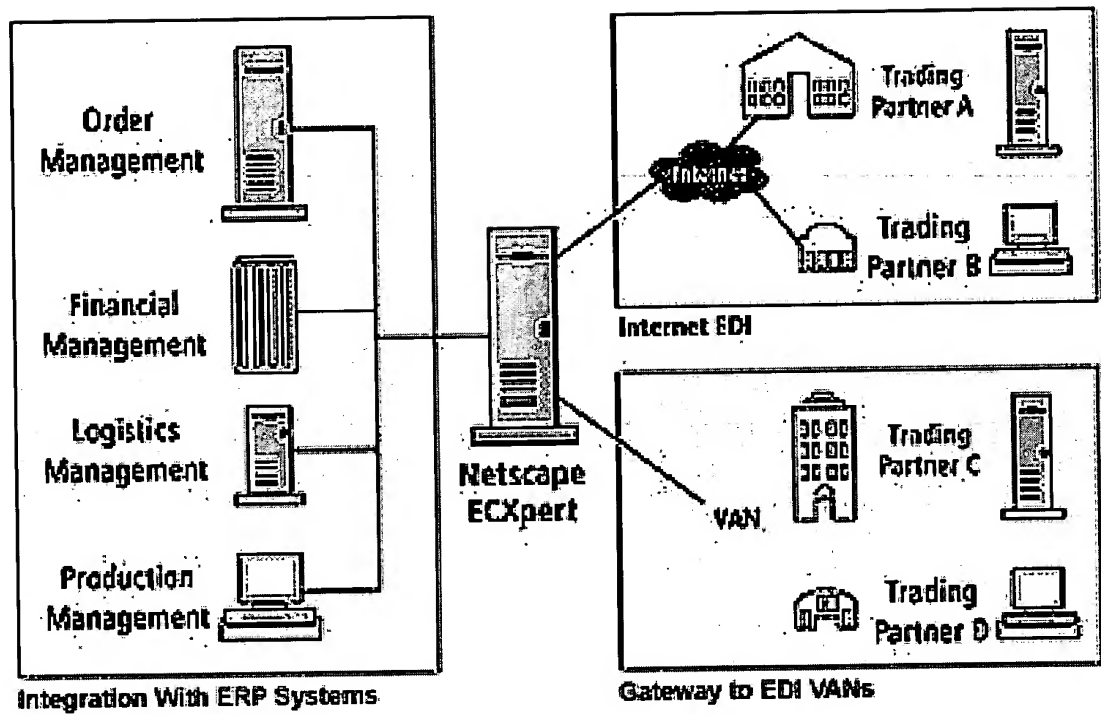
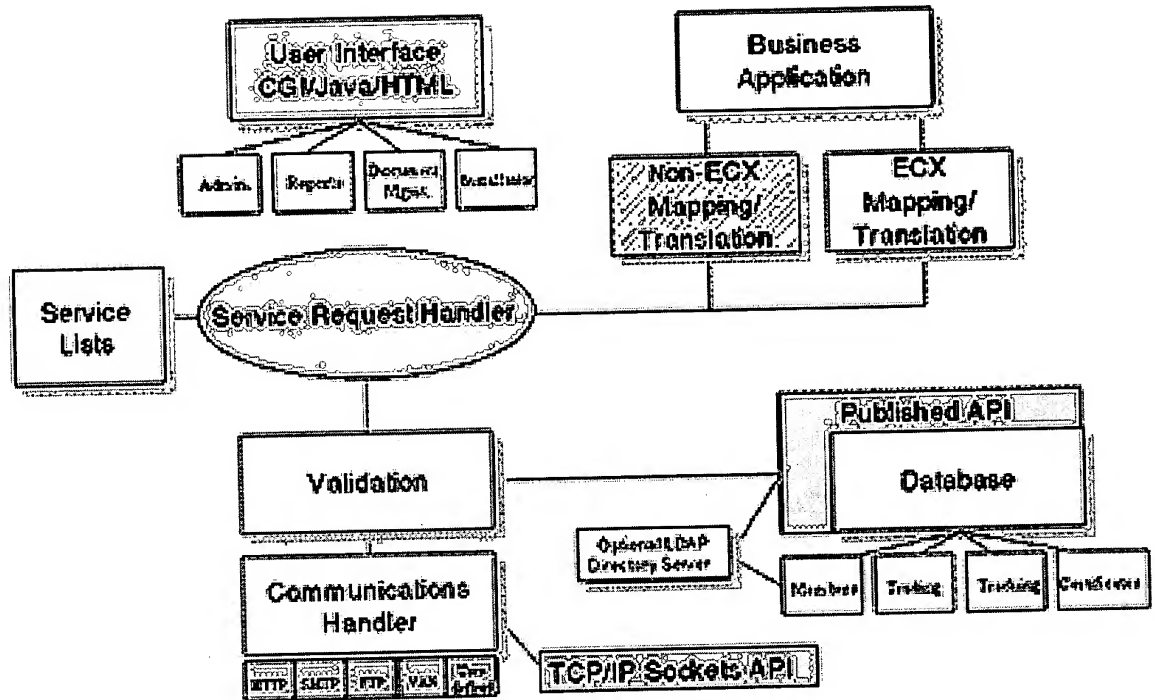


Figure 1AB

Client2 ECXpert



00324360-052709
002250-0957360

Figure 1AC

Client2 SellerXpert

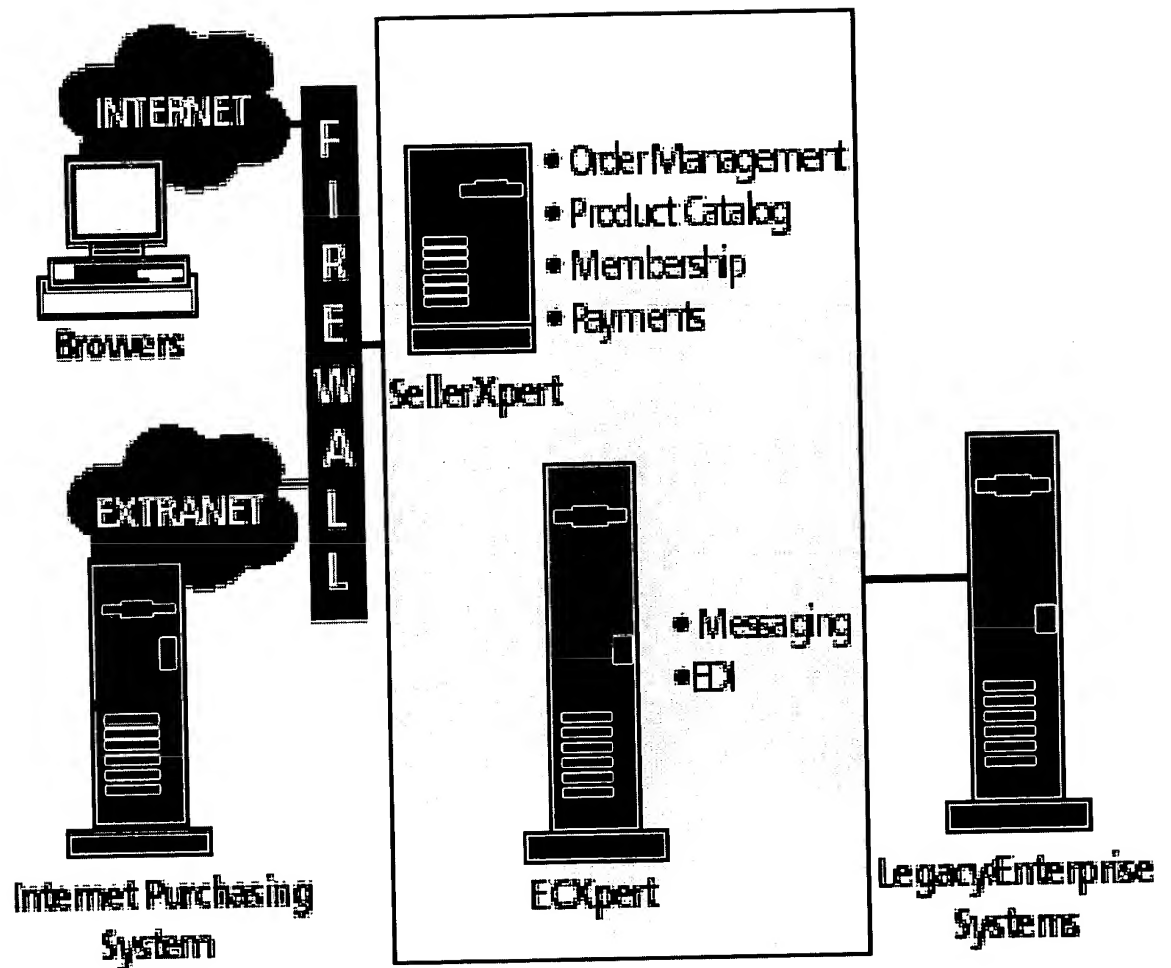


Figure 1AD

Client2 PublishingXpert

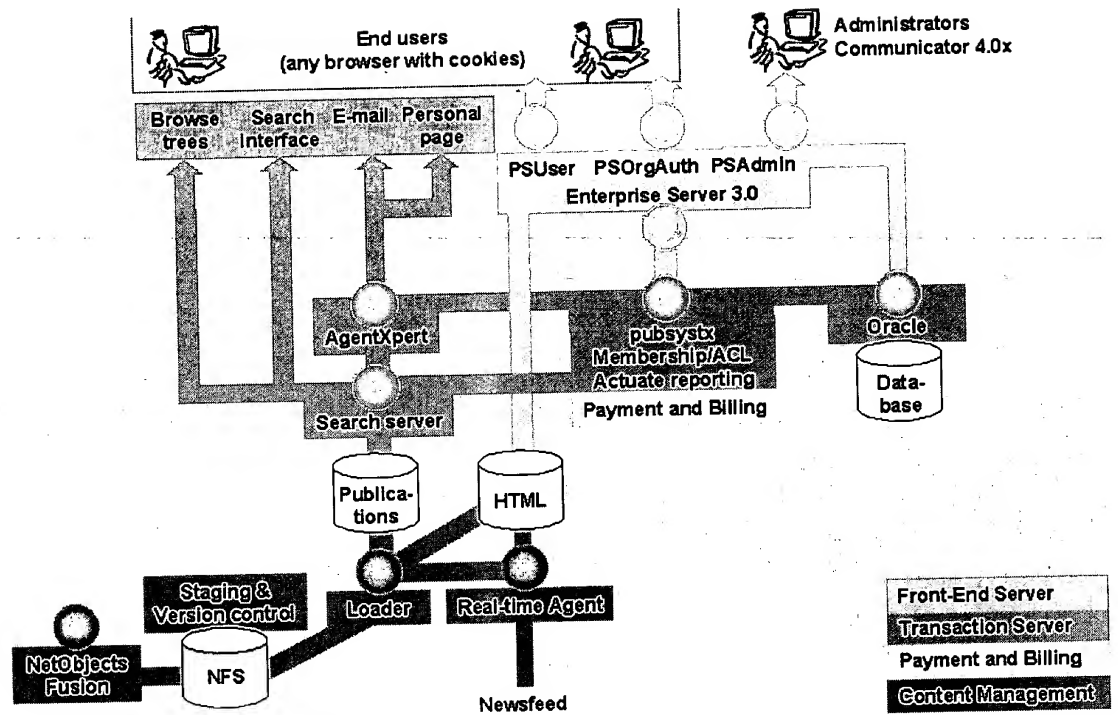
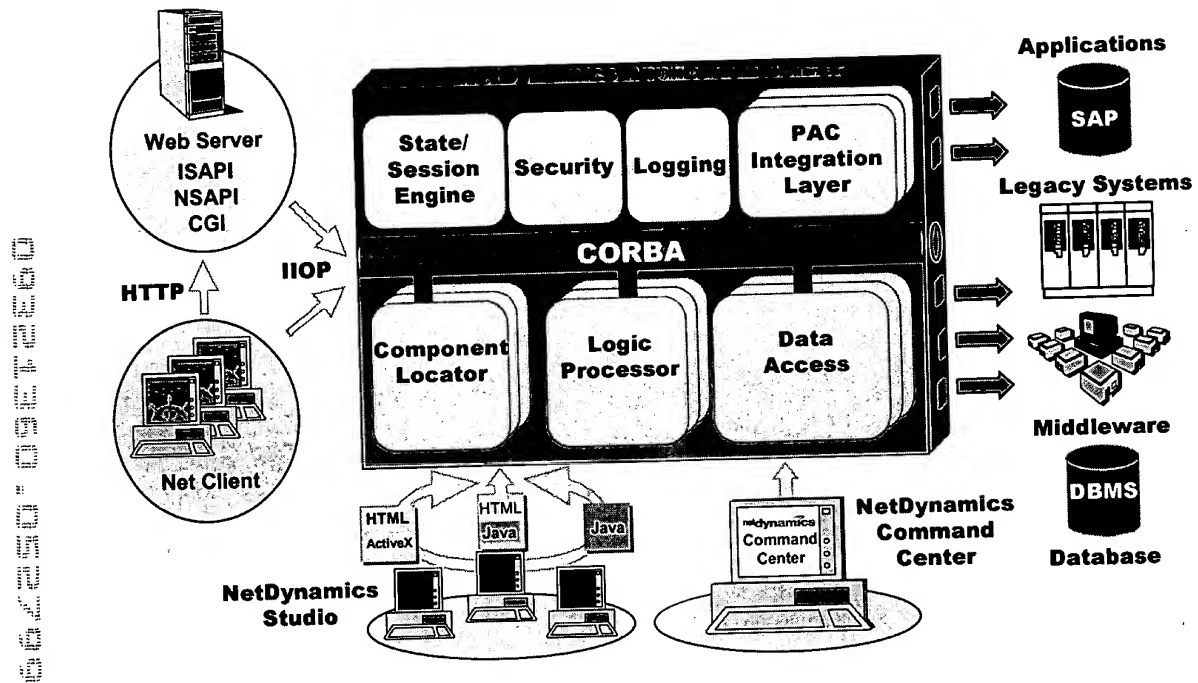


Figure 1AE

Client1 NetDynamics



- ① Any Web browser requests a dynamic-page
- ② The Web server notifies ColdFusion
- ③ ColdFusion processes the dynamic-page based on the CFML tags
- ④ ColdFusion generates an HTML page
- ⑤ The Web server sends the HTML page to the browser

Figure 1AF

Client1 Internet Mail Server

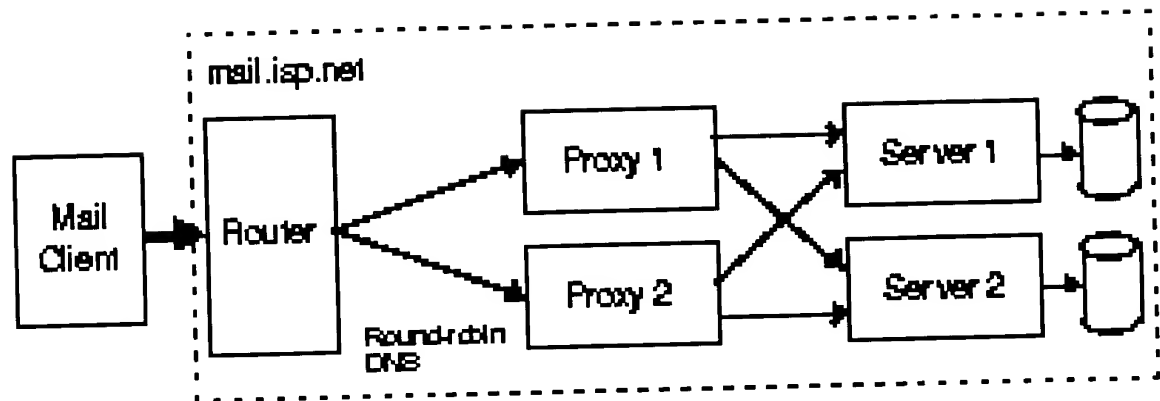


Figure 1AG

Client1 Internet News Server

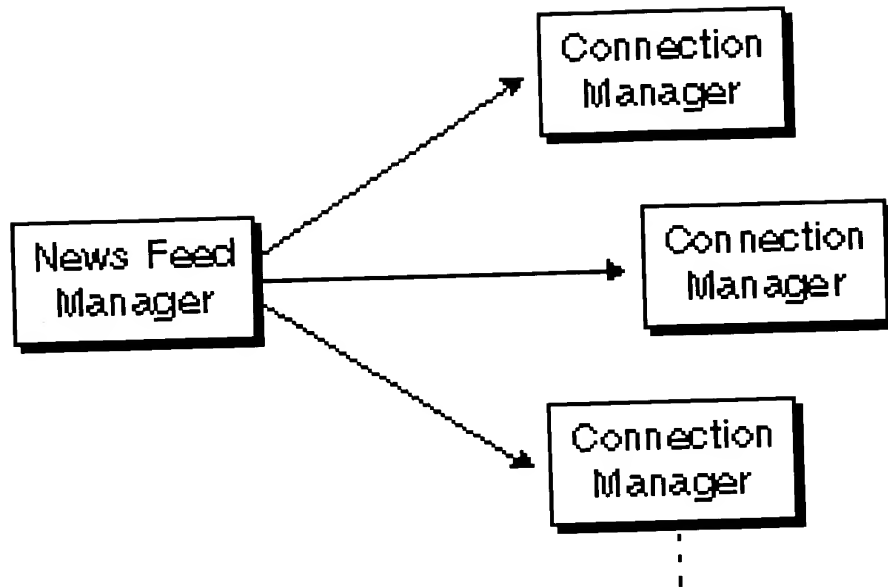


Figure 1AH

00321460:052739
052650:054726

Client1 Personal WebAccess Browser

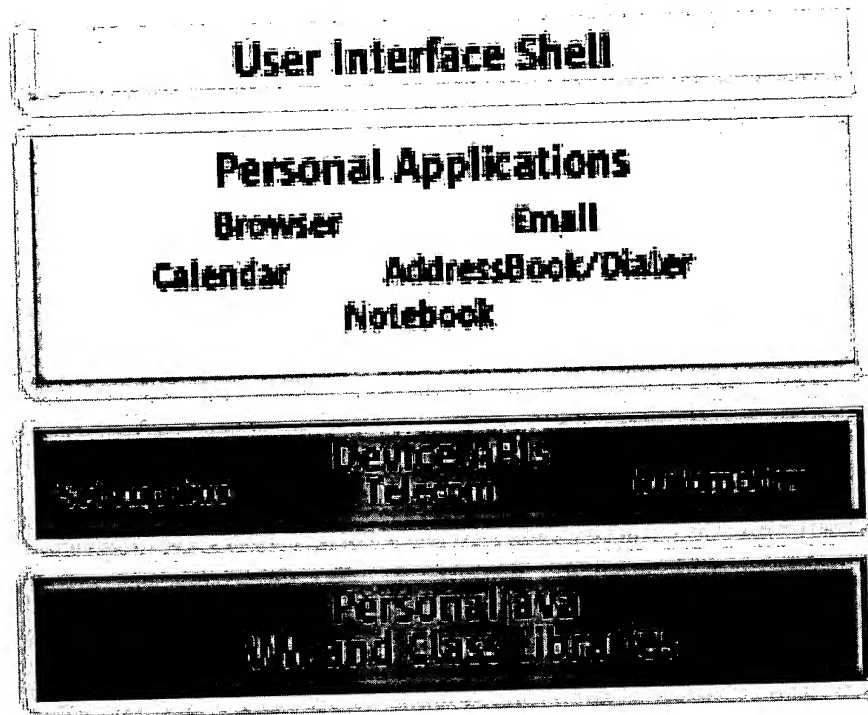


Figure 1A1

09321360:052329
000000:000000

Client1 Directory Services

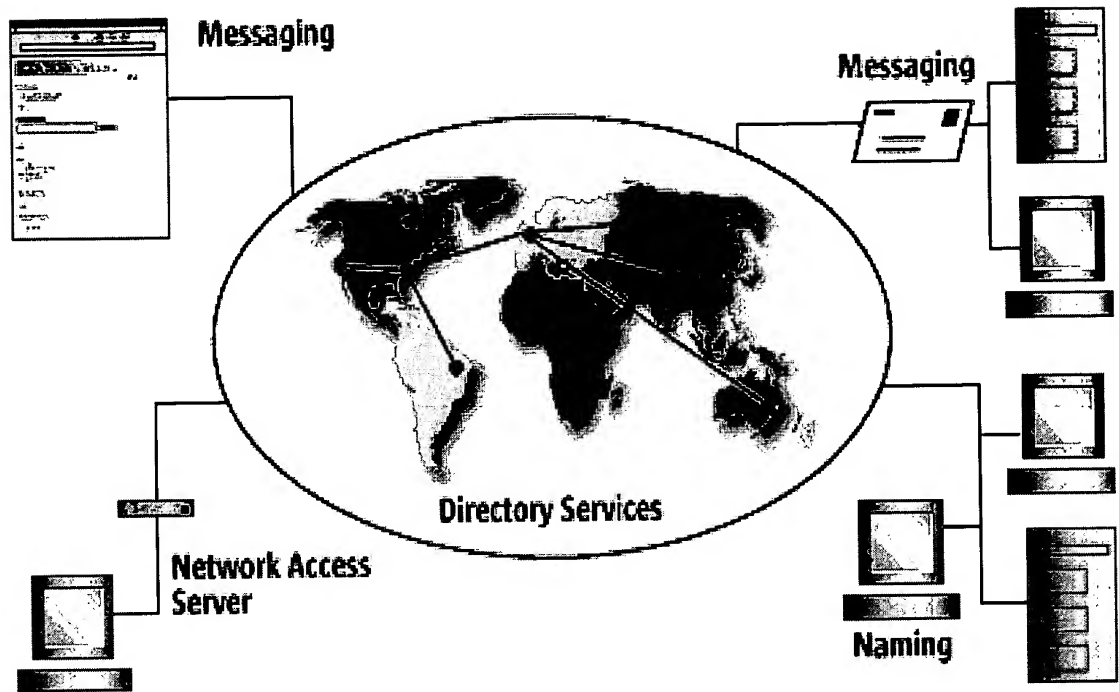


Figure 1AJ

Client1 JavaWallet

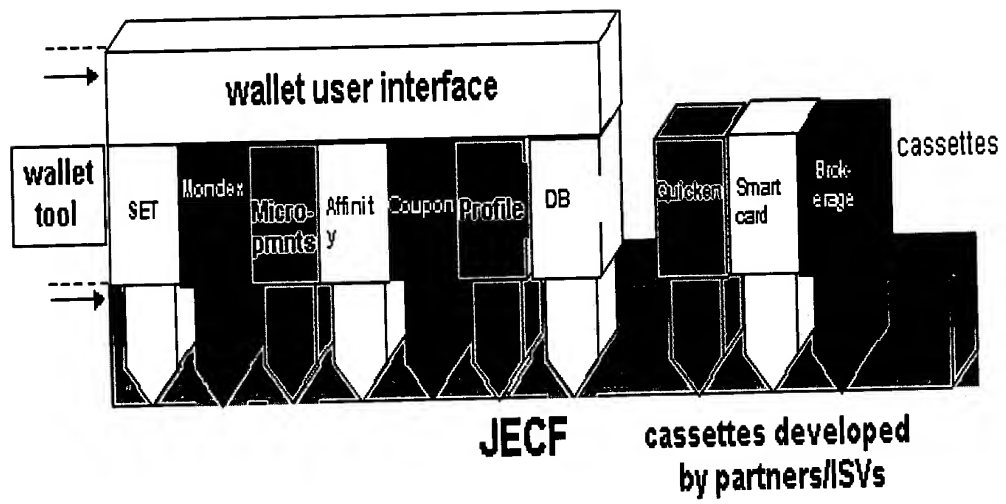


Figure 1AK

Client1Screen Product Suite

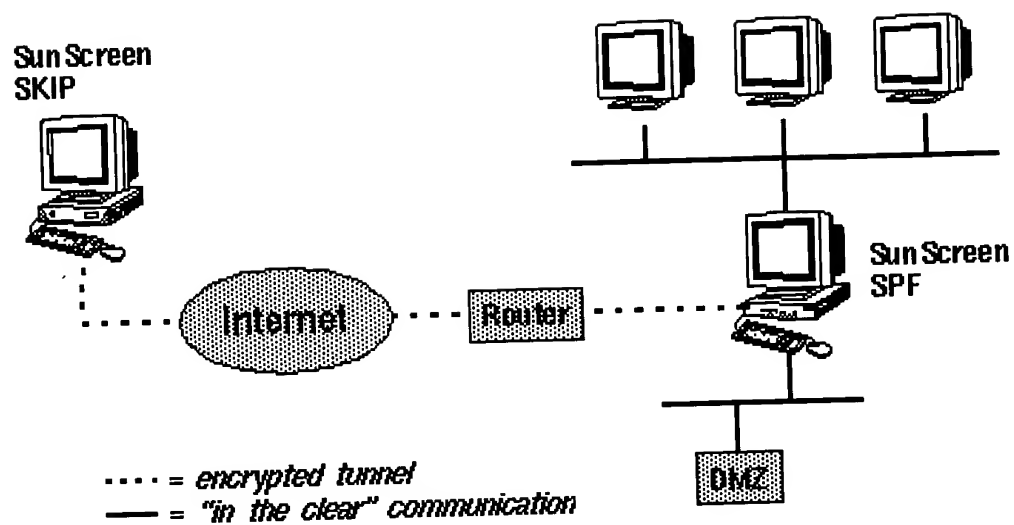


Figure 1AL

00321360-0527-99
004290-09ET-000

Netra Internet Server Bundle

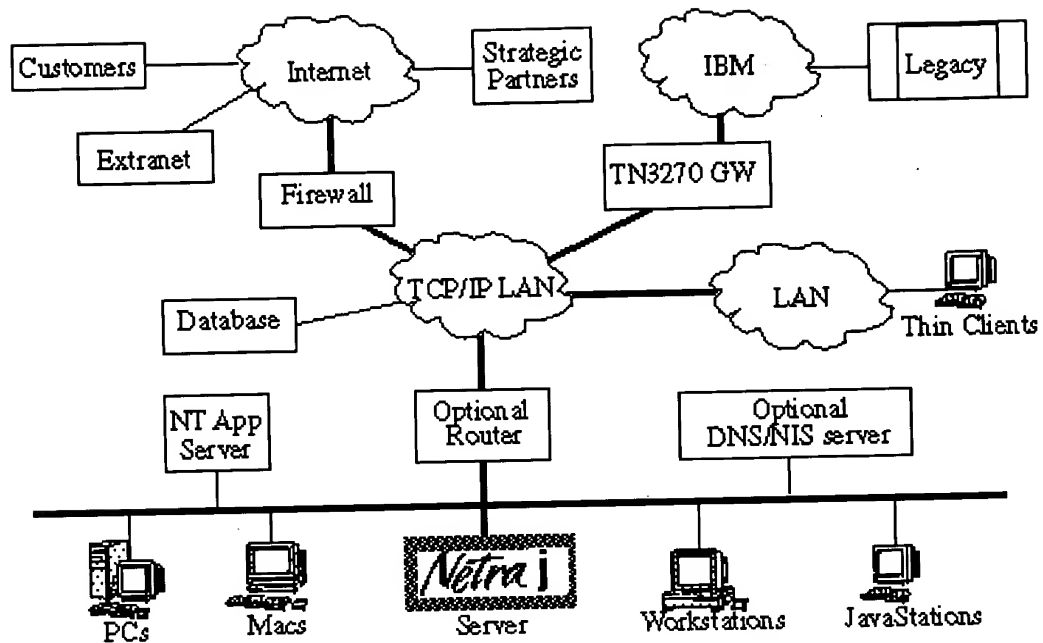


Figure 1AM

Solaris ISP Server Bundle

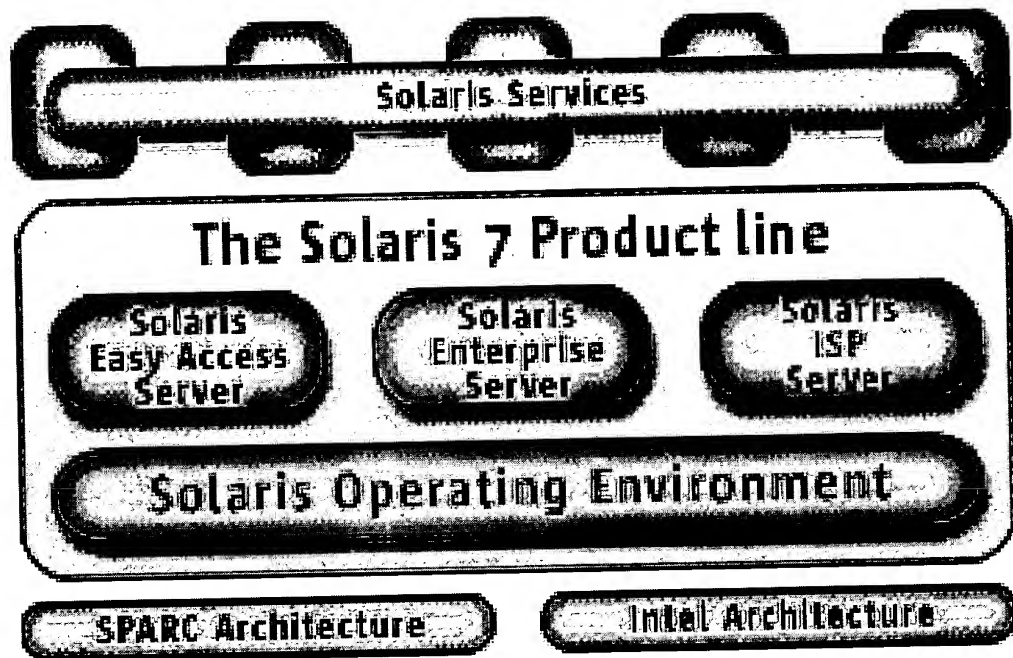


Figure 1AN

09324360-052709
002250-09324360

Development & Testing Tools

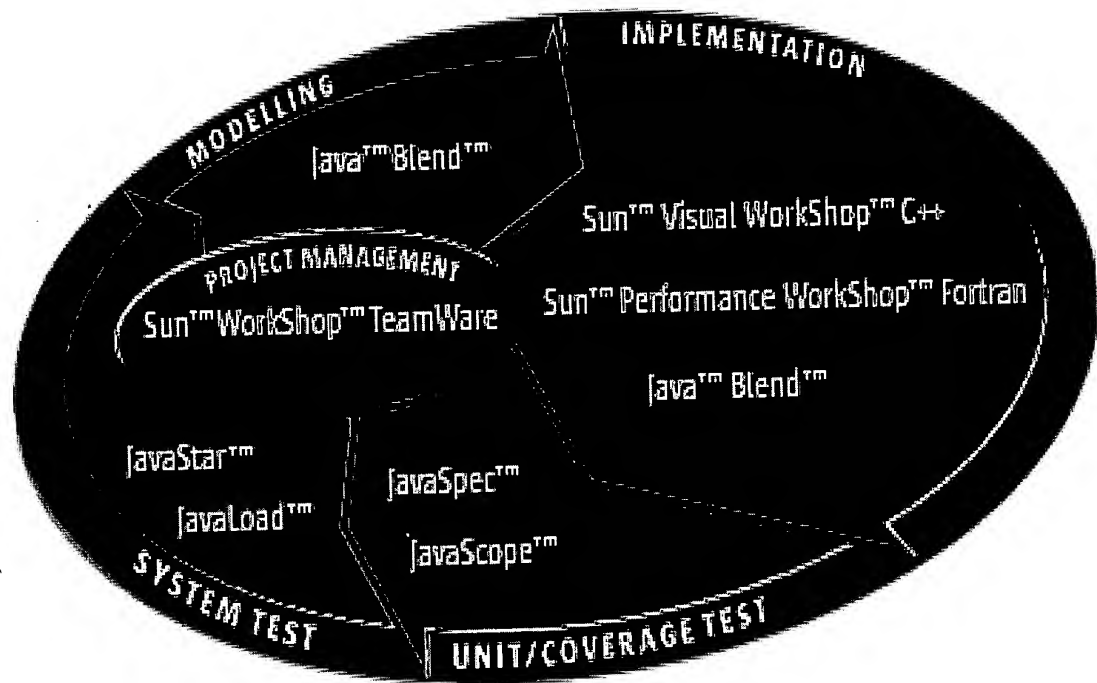


Figure 1AO

00321360-052799

BACKGROUND

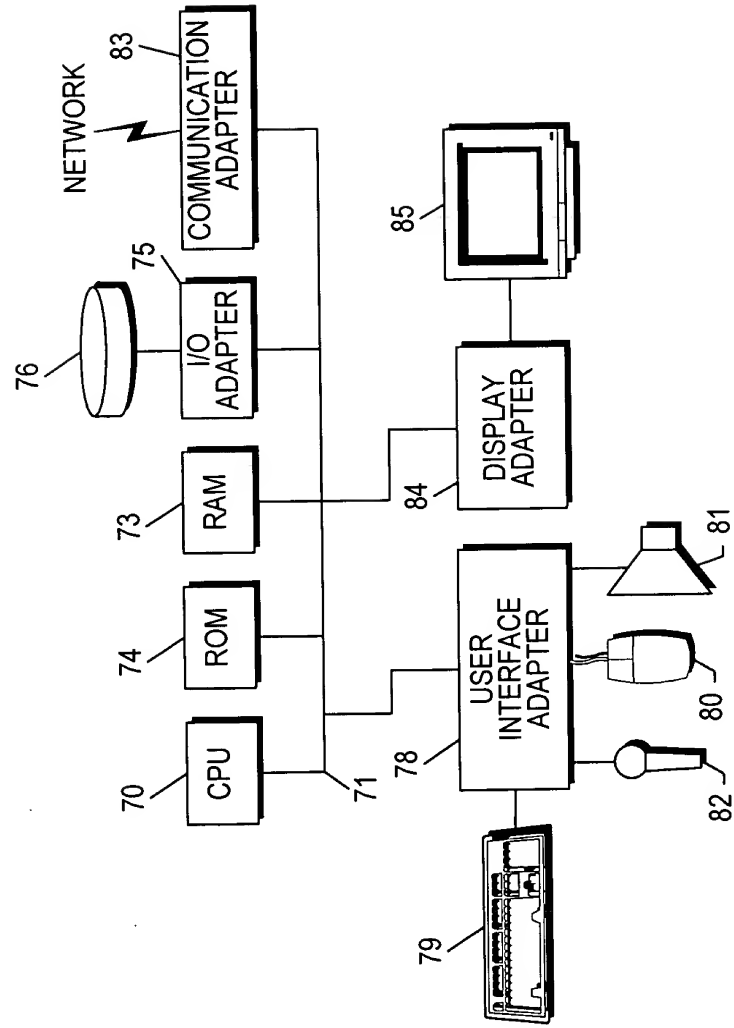


Figure 2A

Productivity

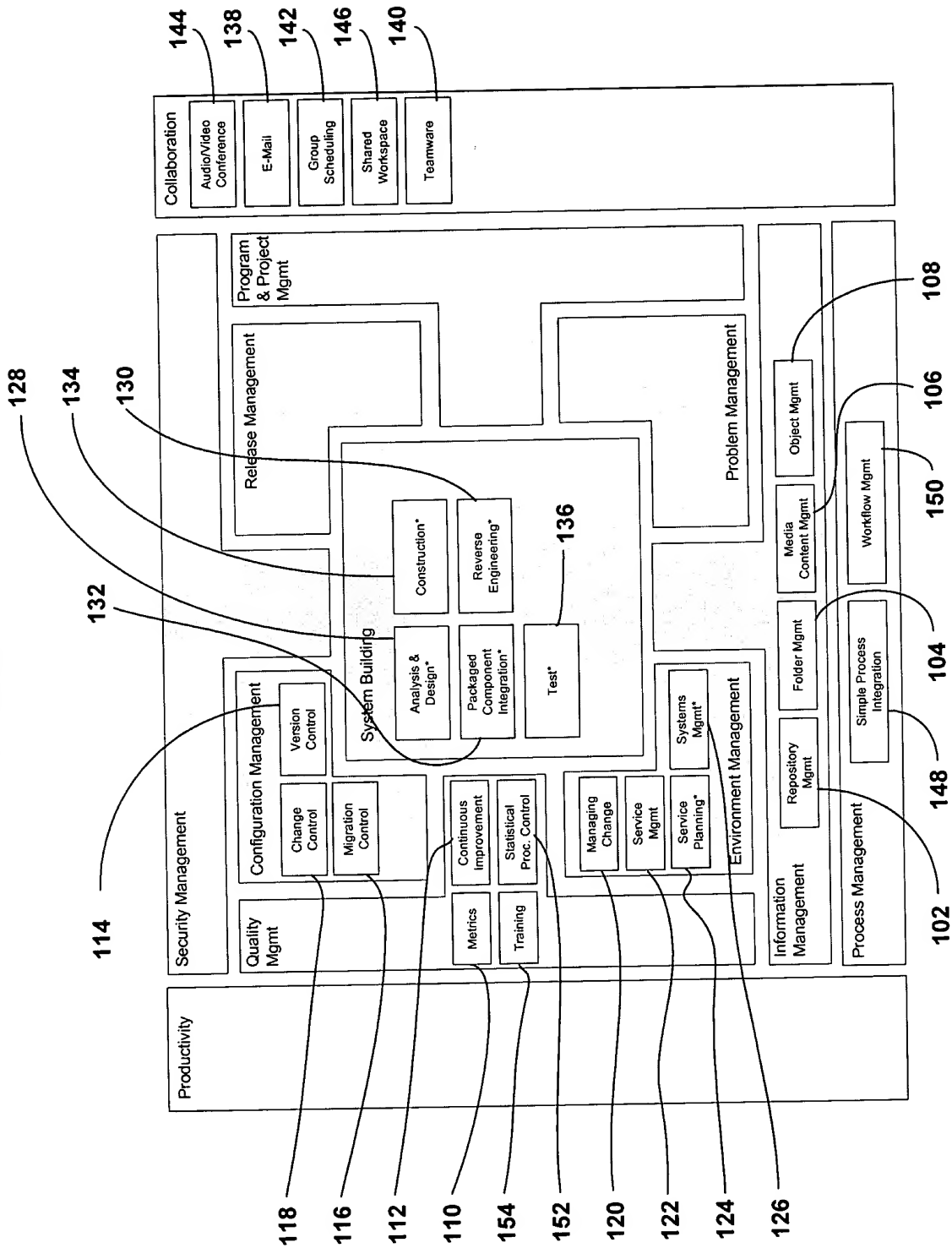


Figure 2B

302 304 306

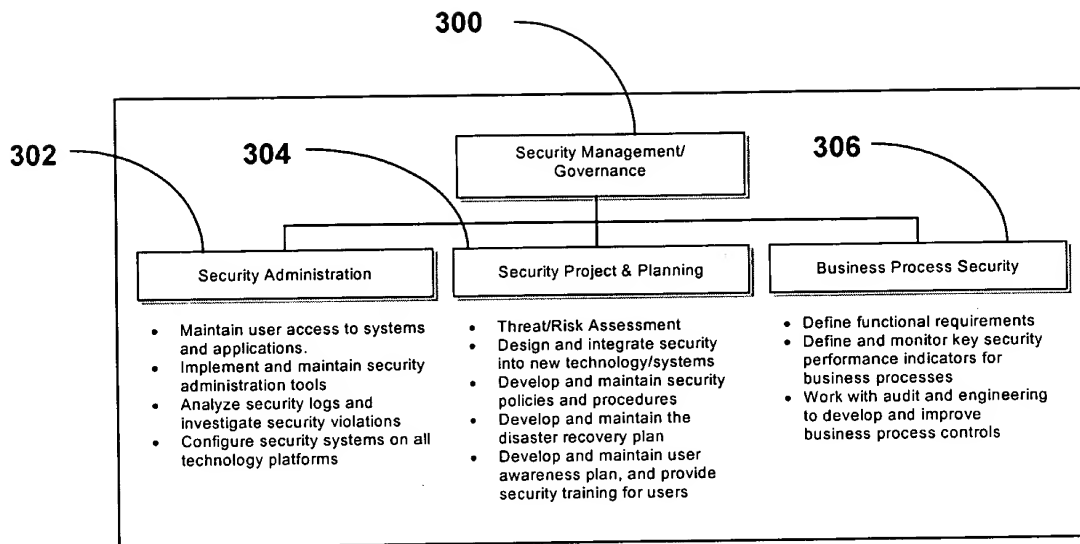


Figure 3

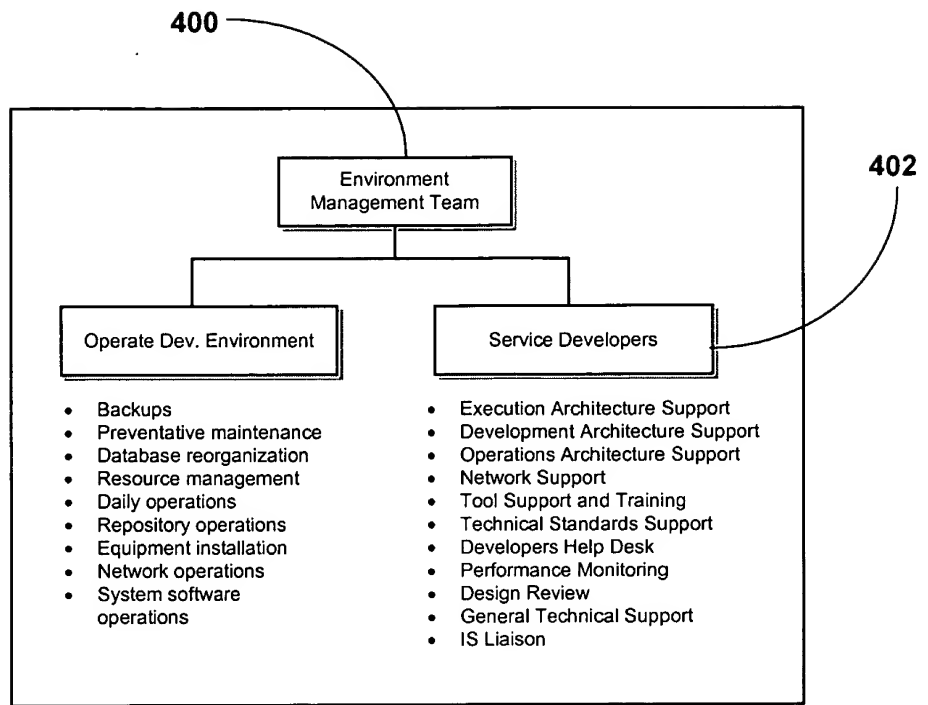


Figure 4

65490373

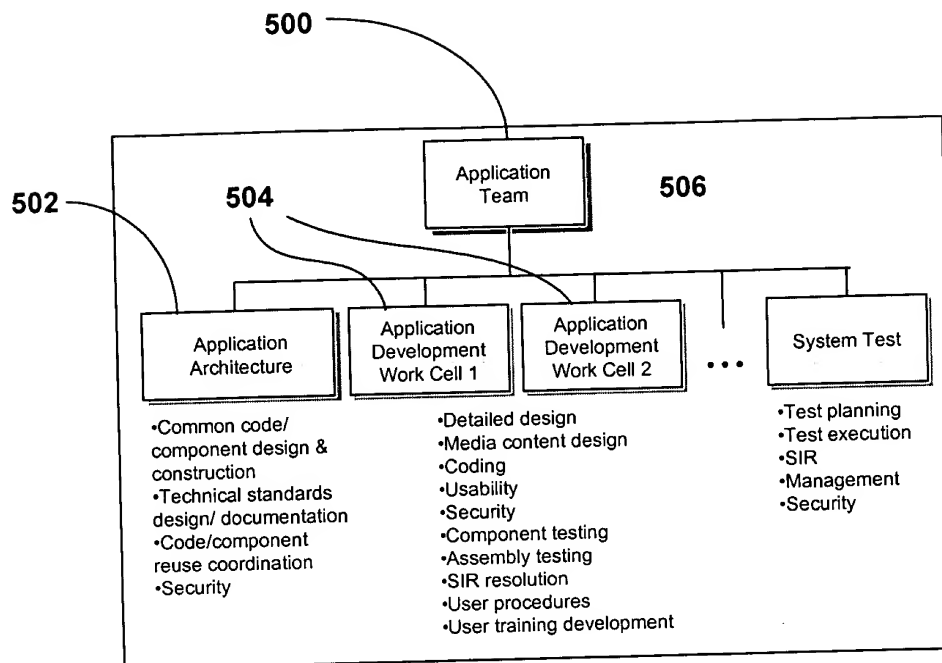


Figure 5

600 602 604 606 608 610 612

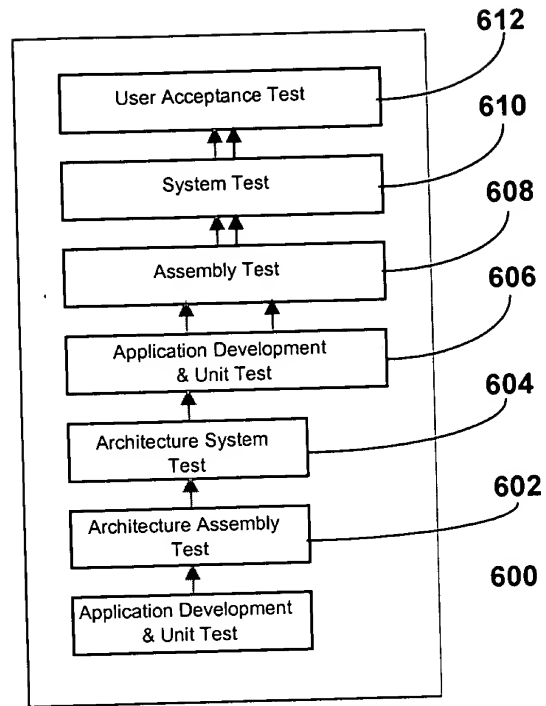


Figure 6

66499-66499

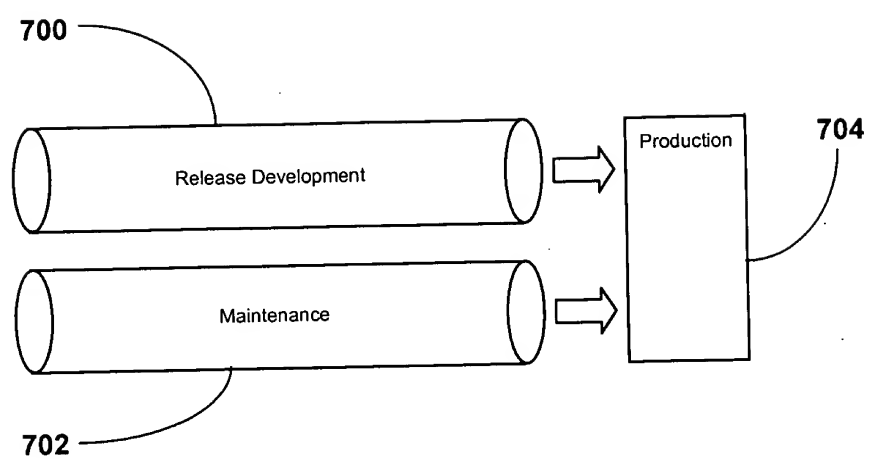


Figure 7

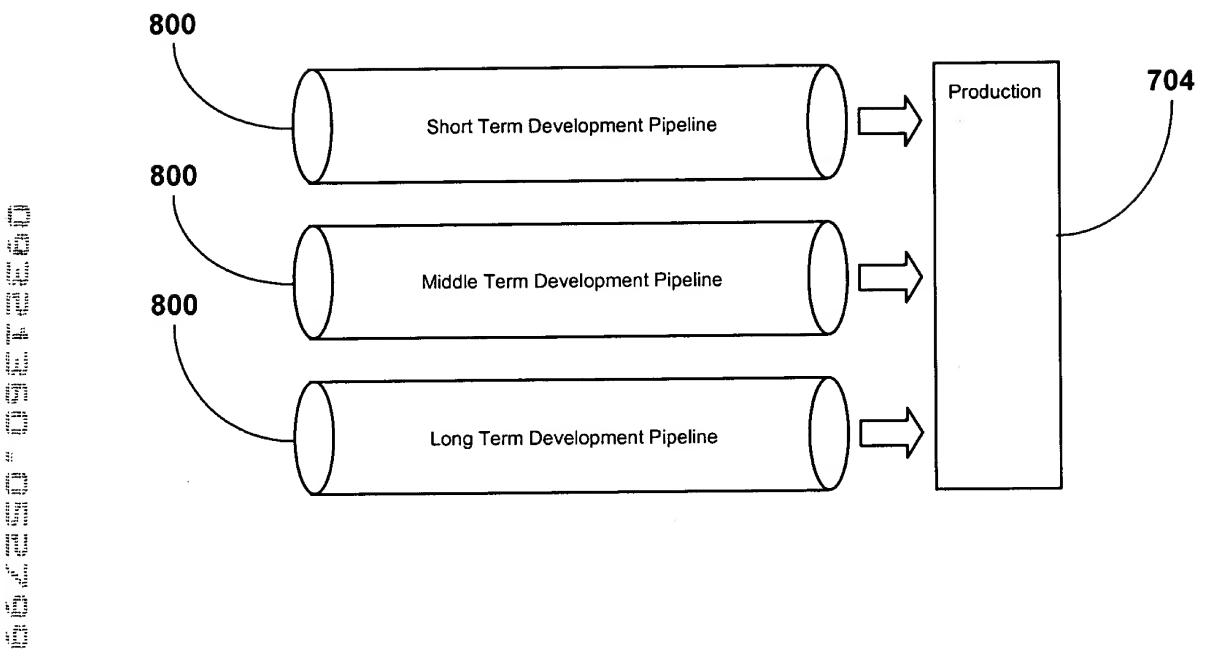


Figure 8

Patent Application No. 2016/0100000

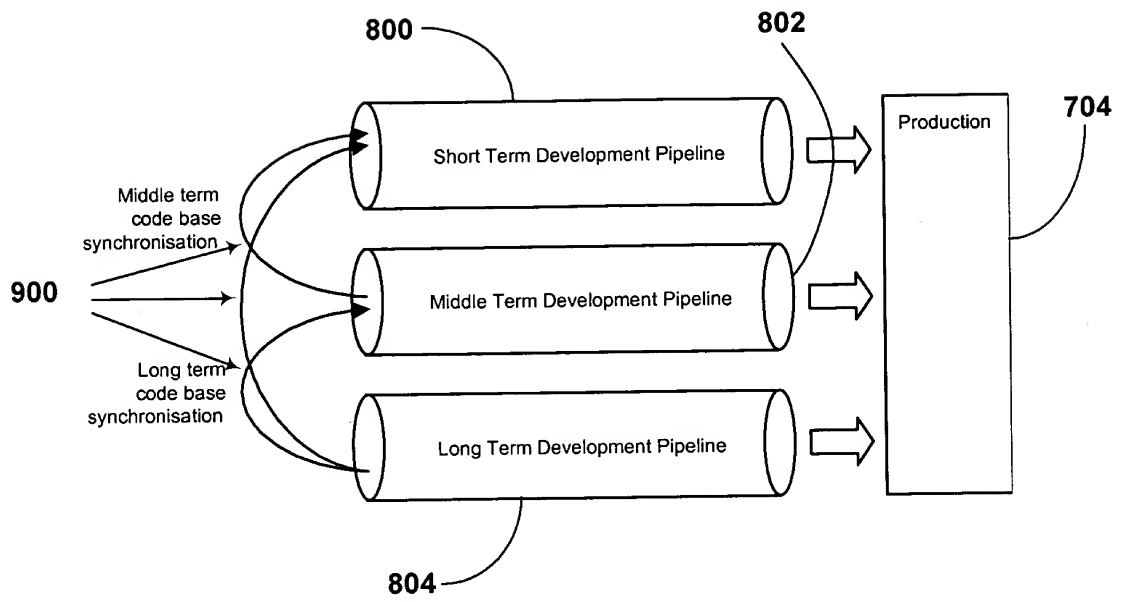


Figure 9

64490-03-0000

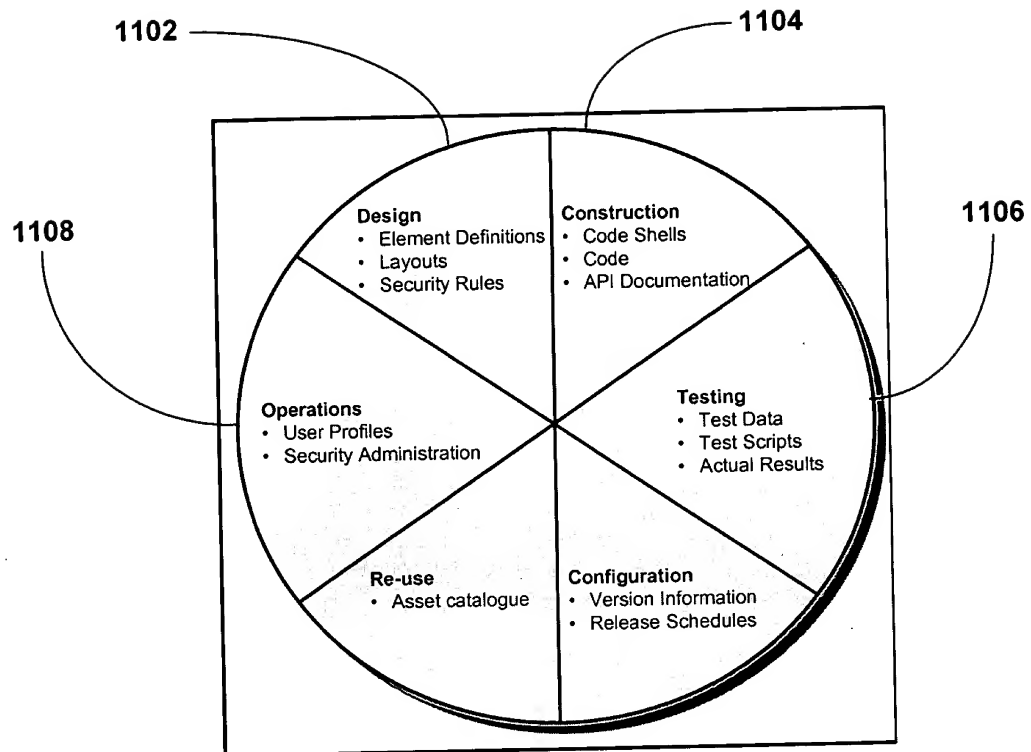


Figure 11

1102 1106 1108

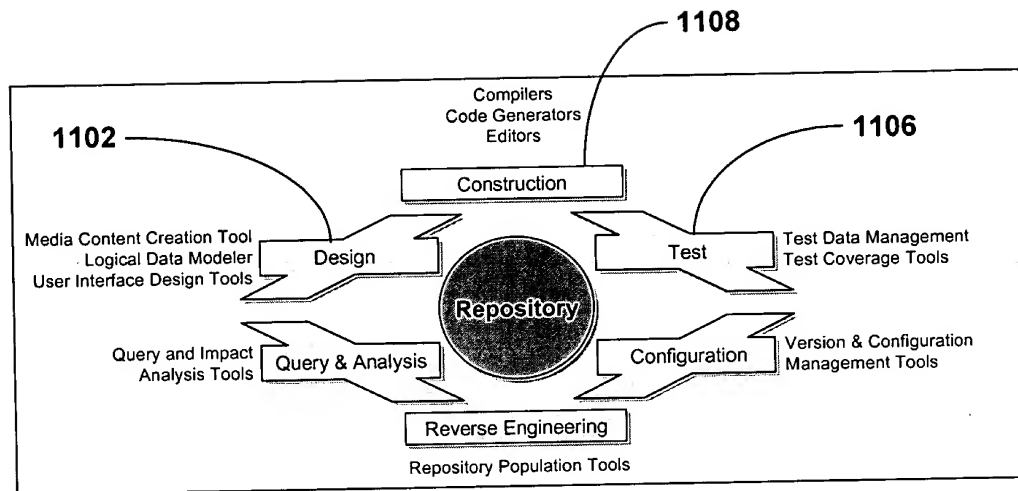


Figure 12

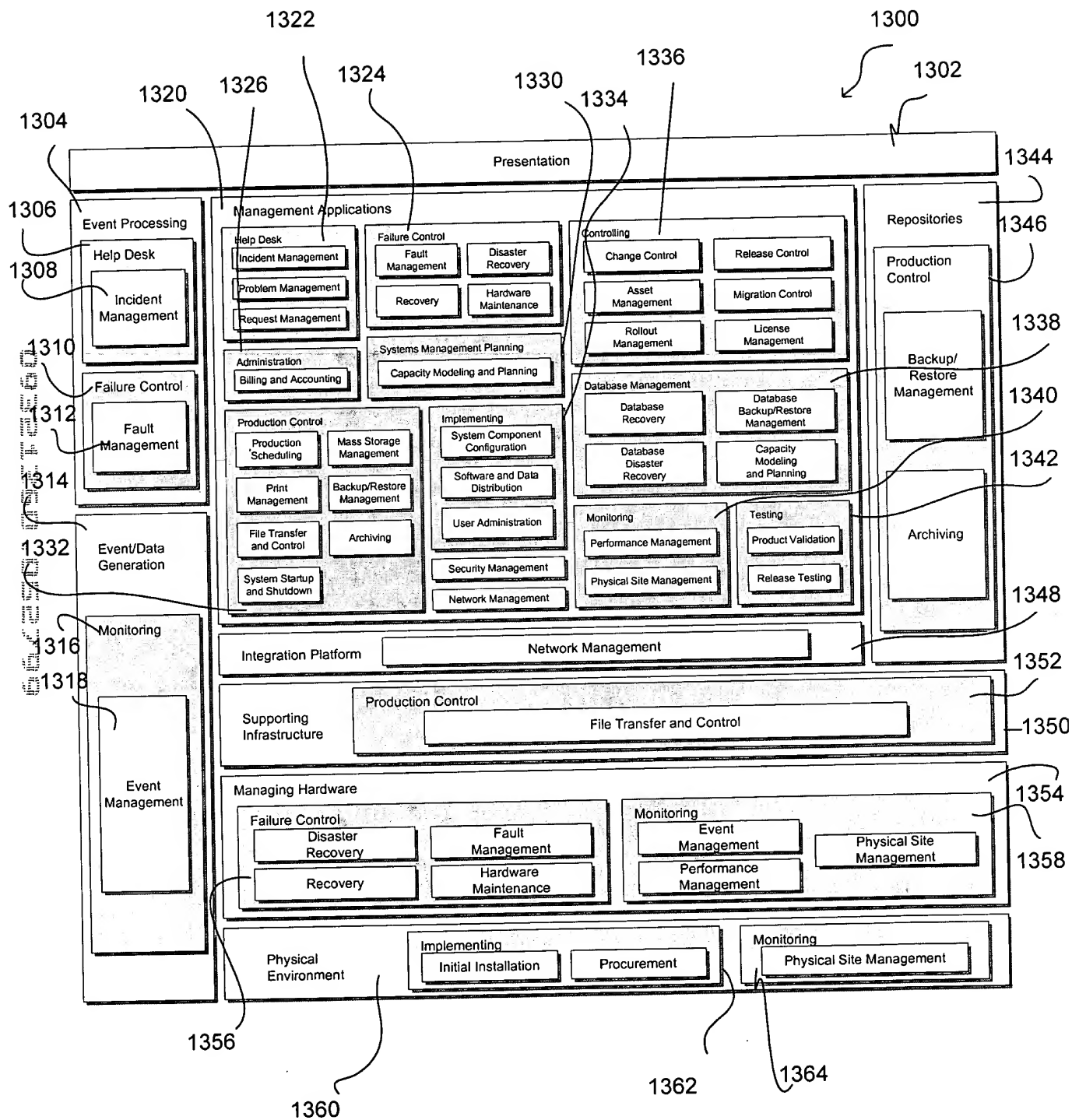


Figure 13

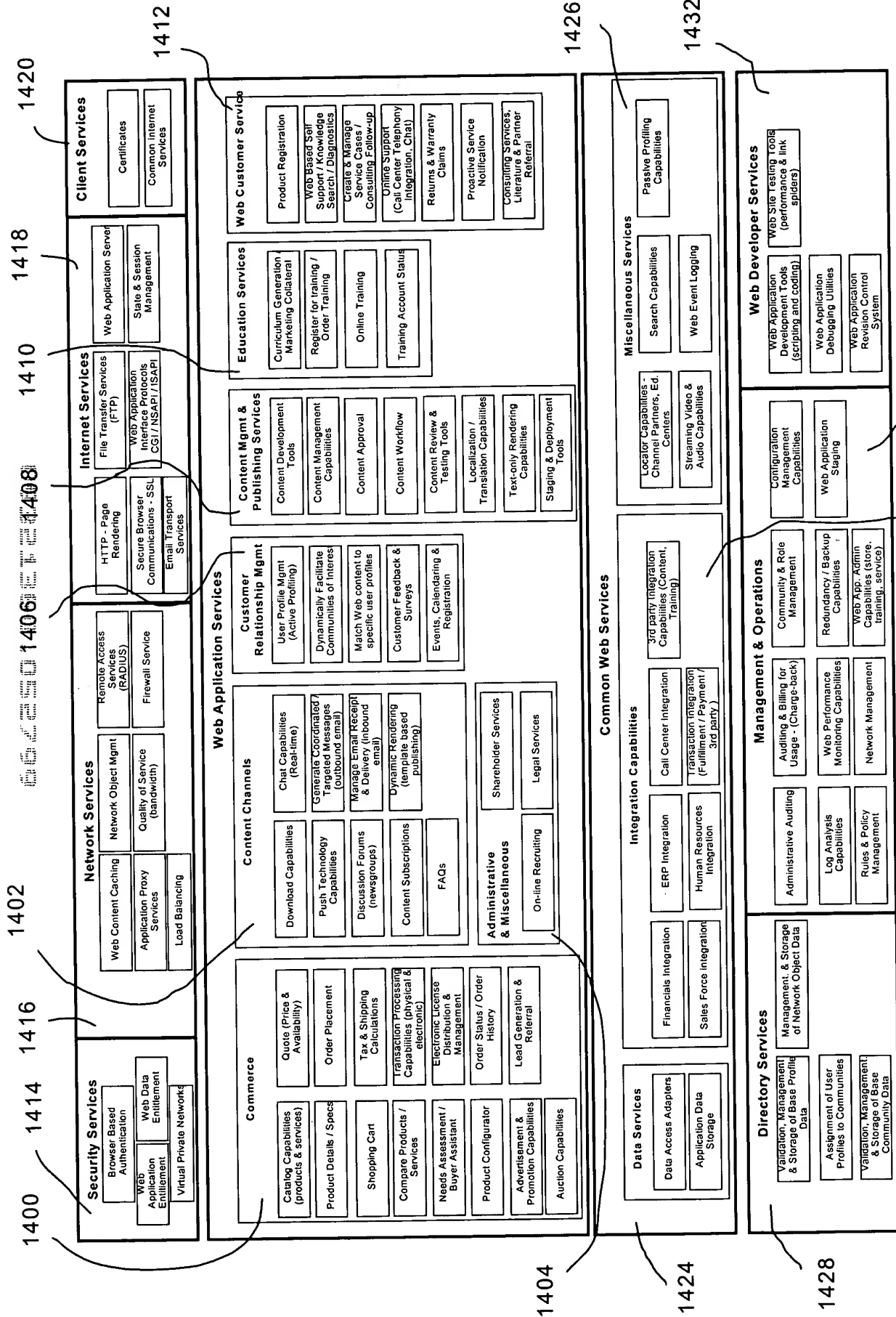


Figure 14 1422

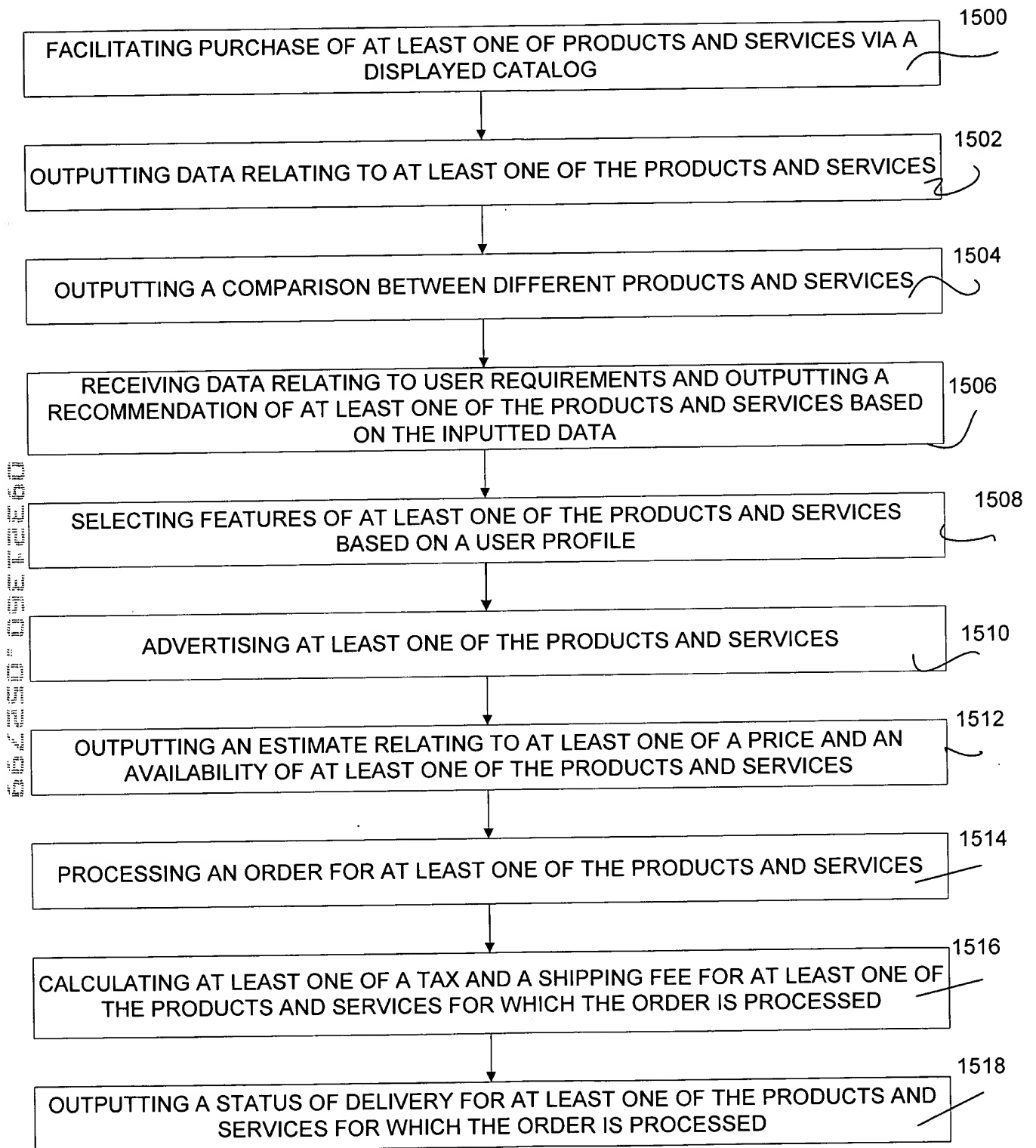


Figure 15

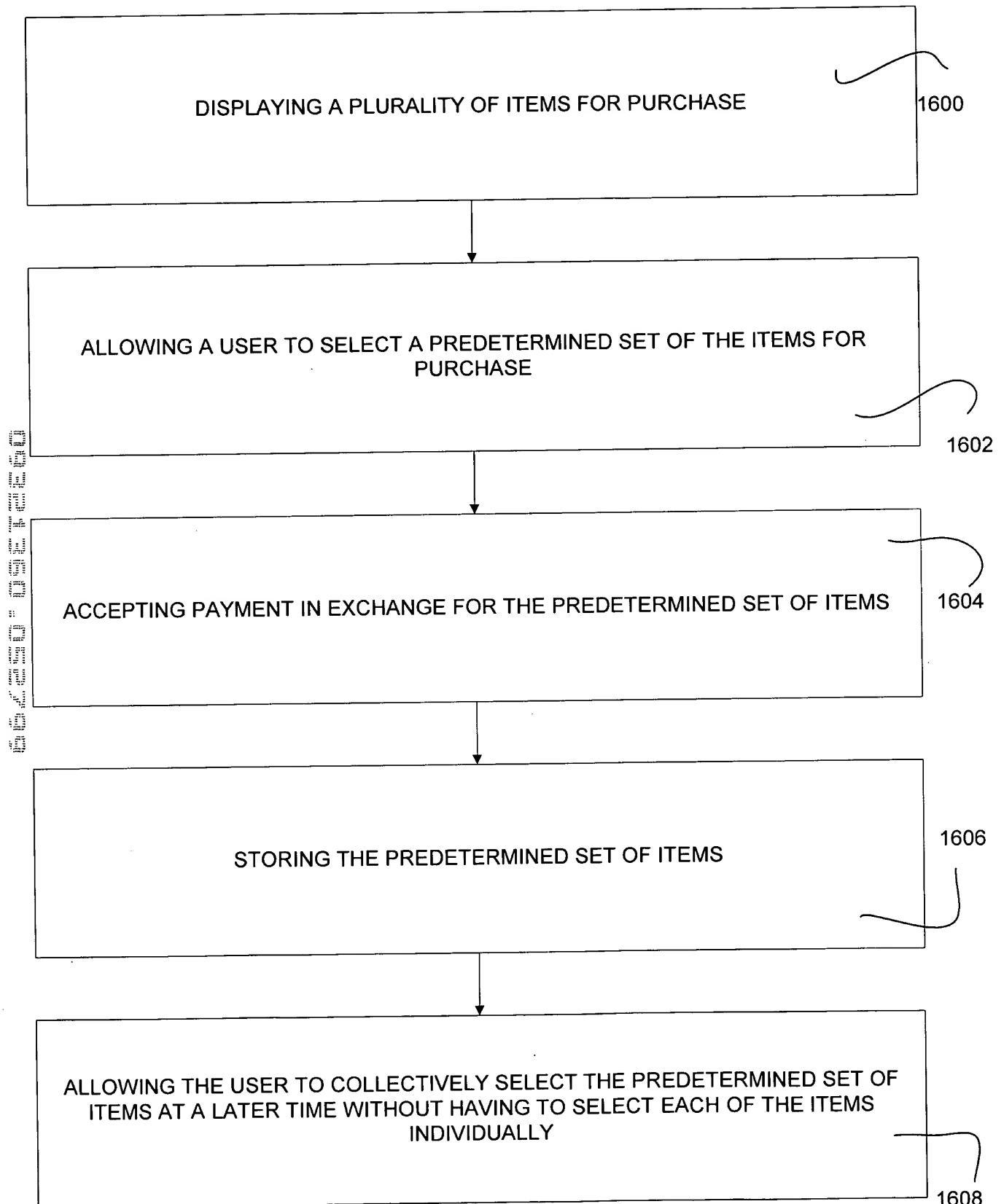
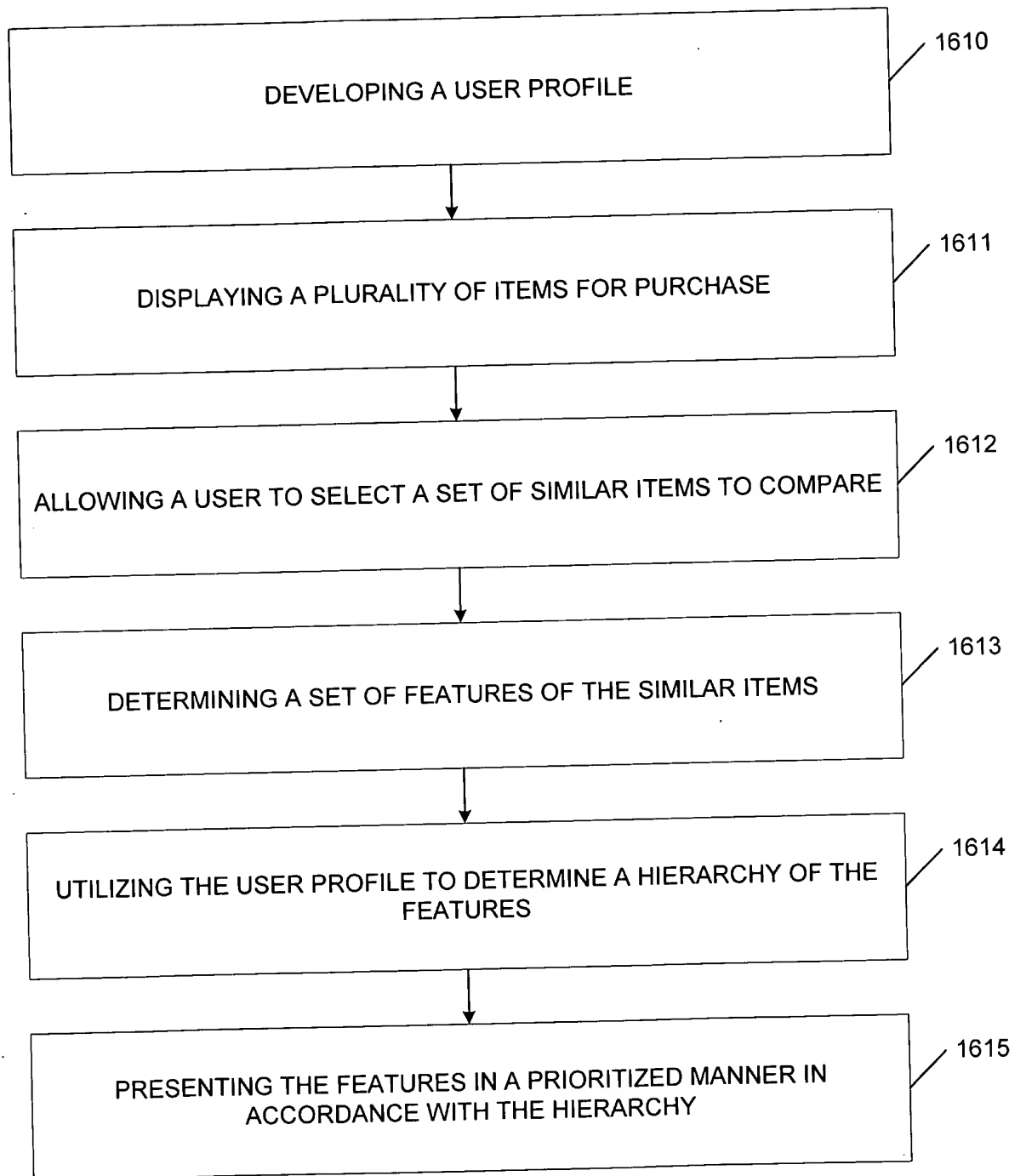


Figure 16

6693-0000-0000



1504

Figure 16A

60450-0964660

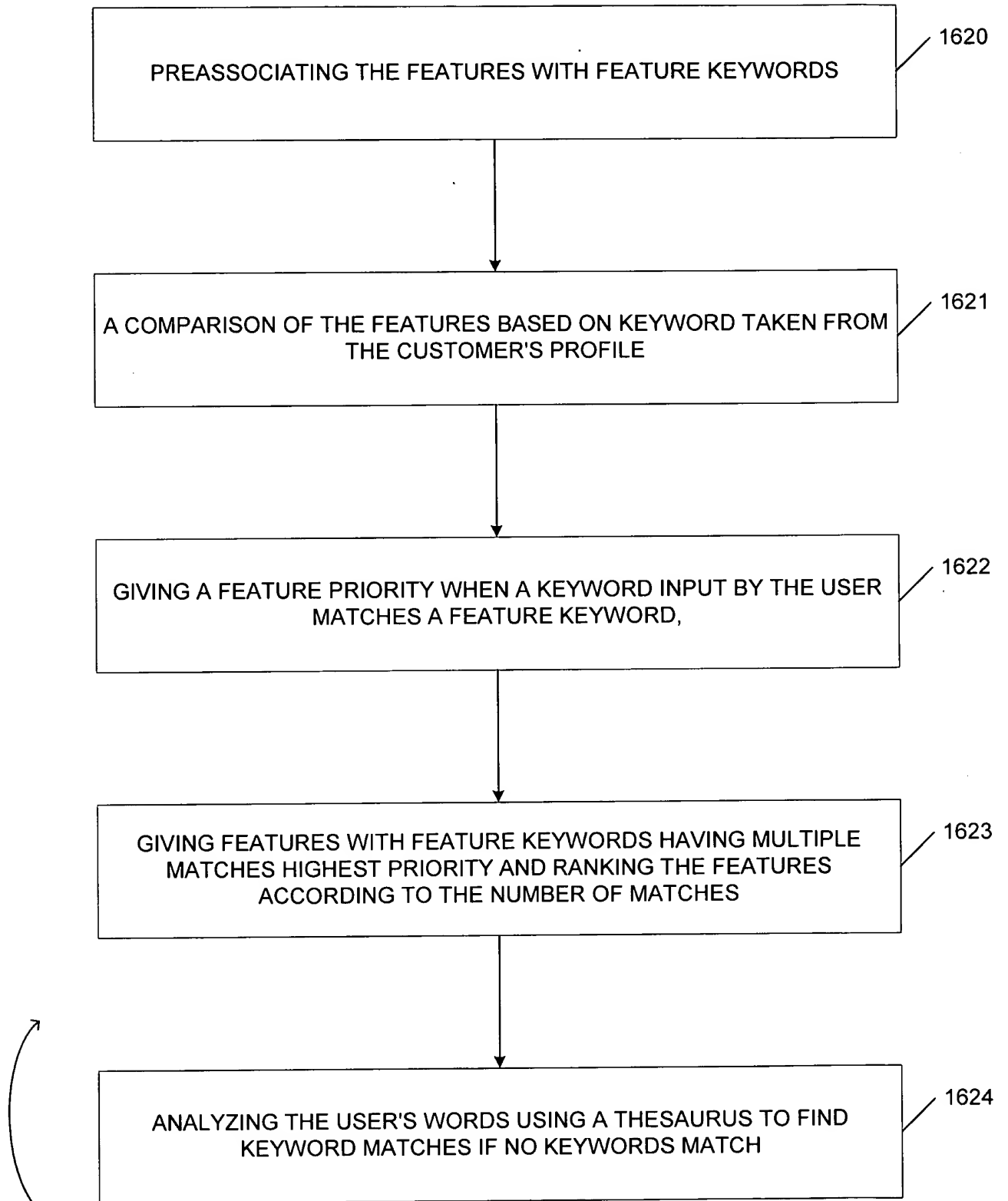


Figure 16B

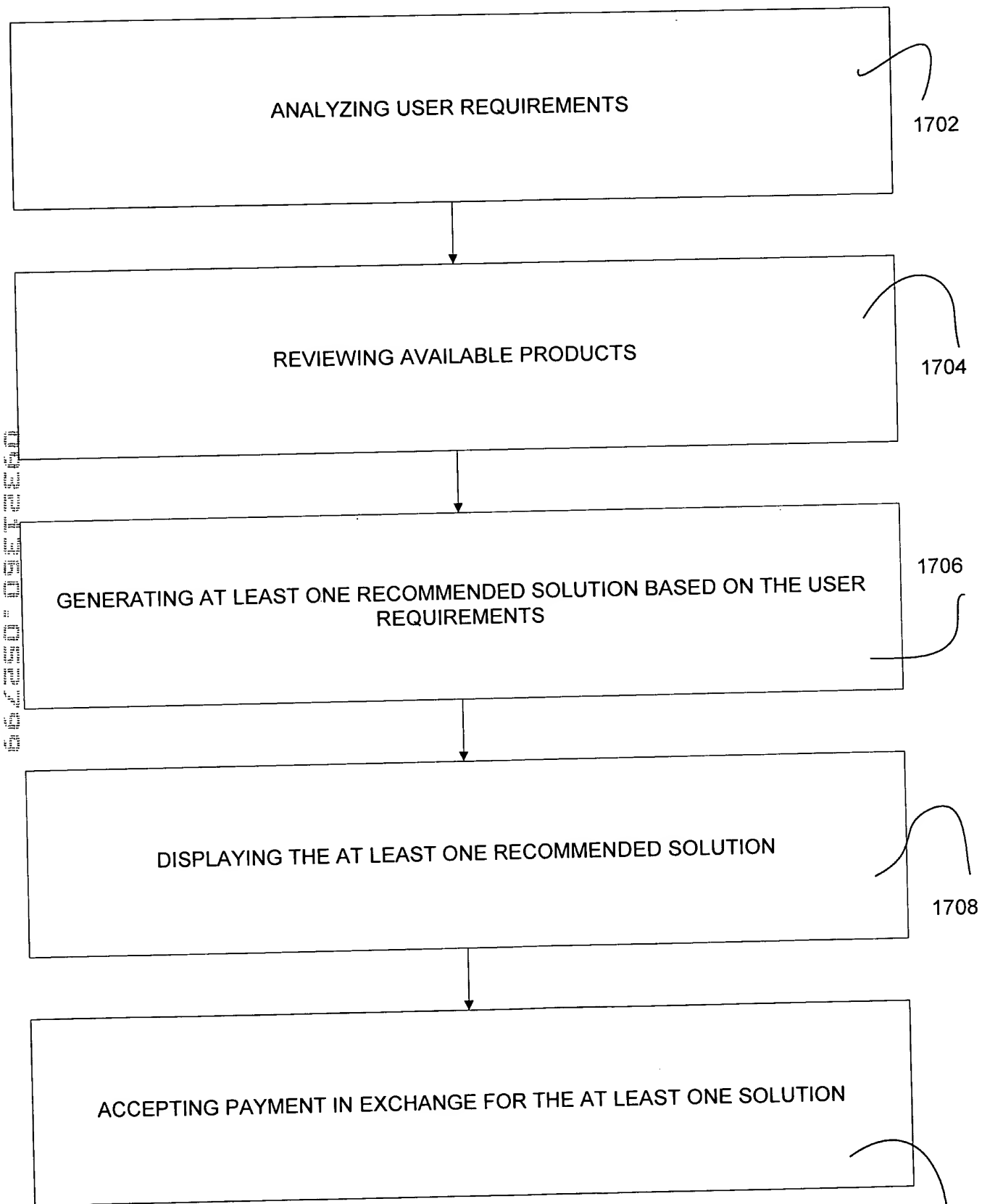


Figure 17

1706

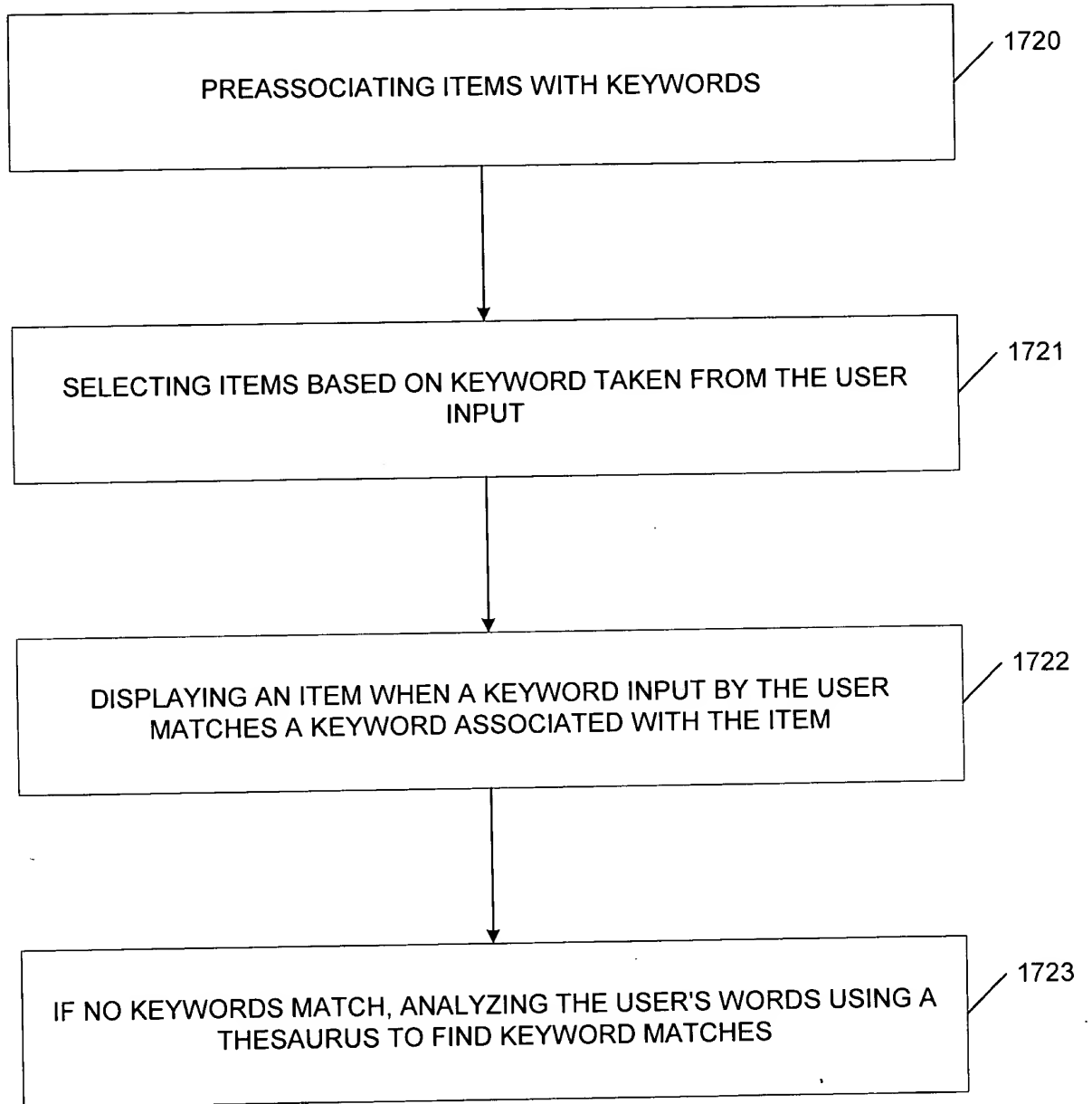


Figure 17A

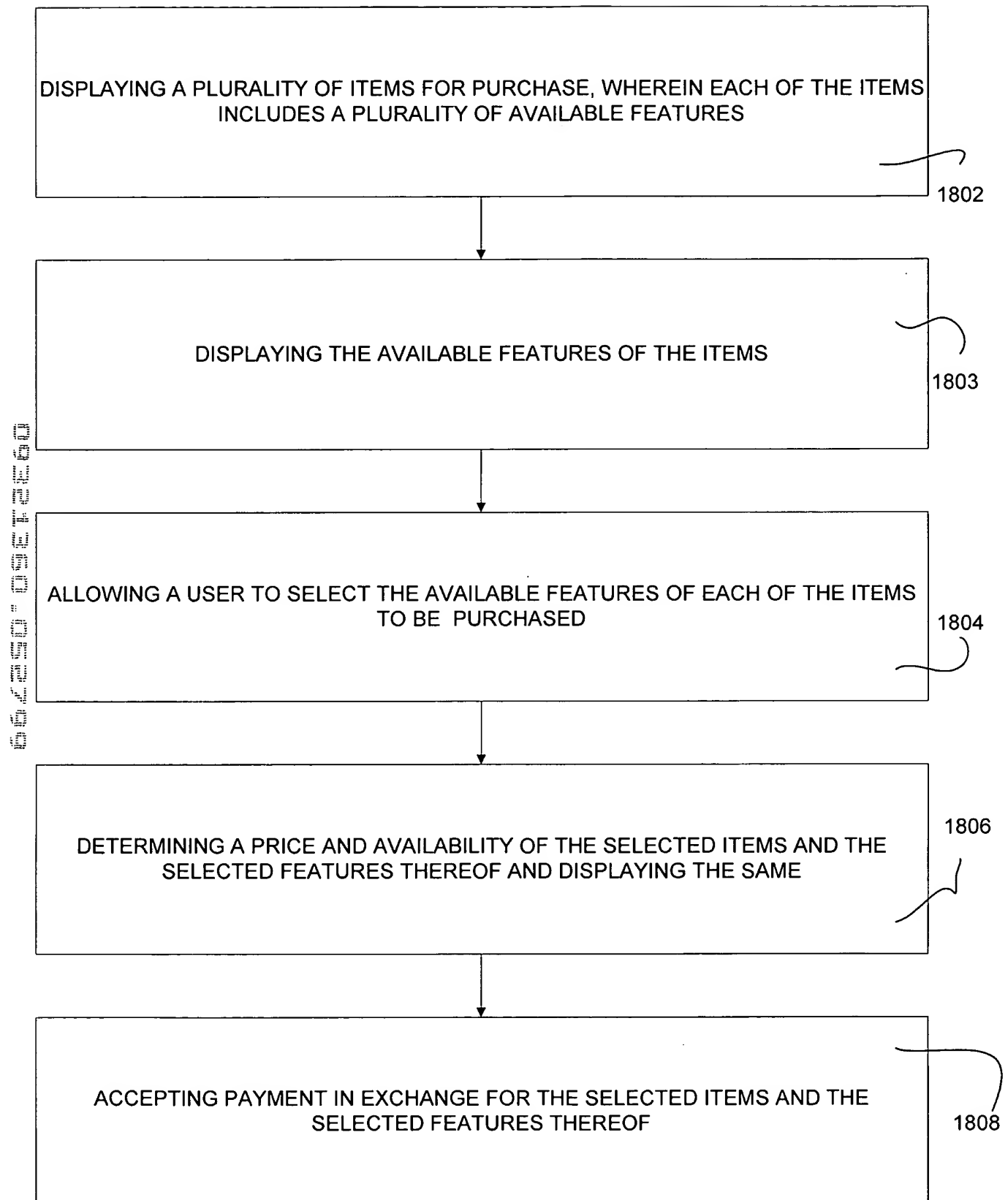


Figure 18

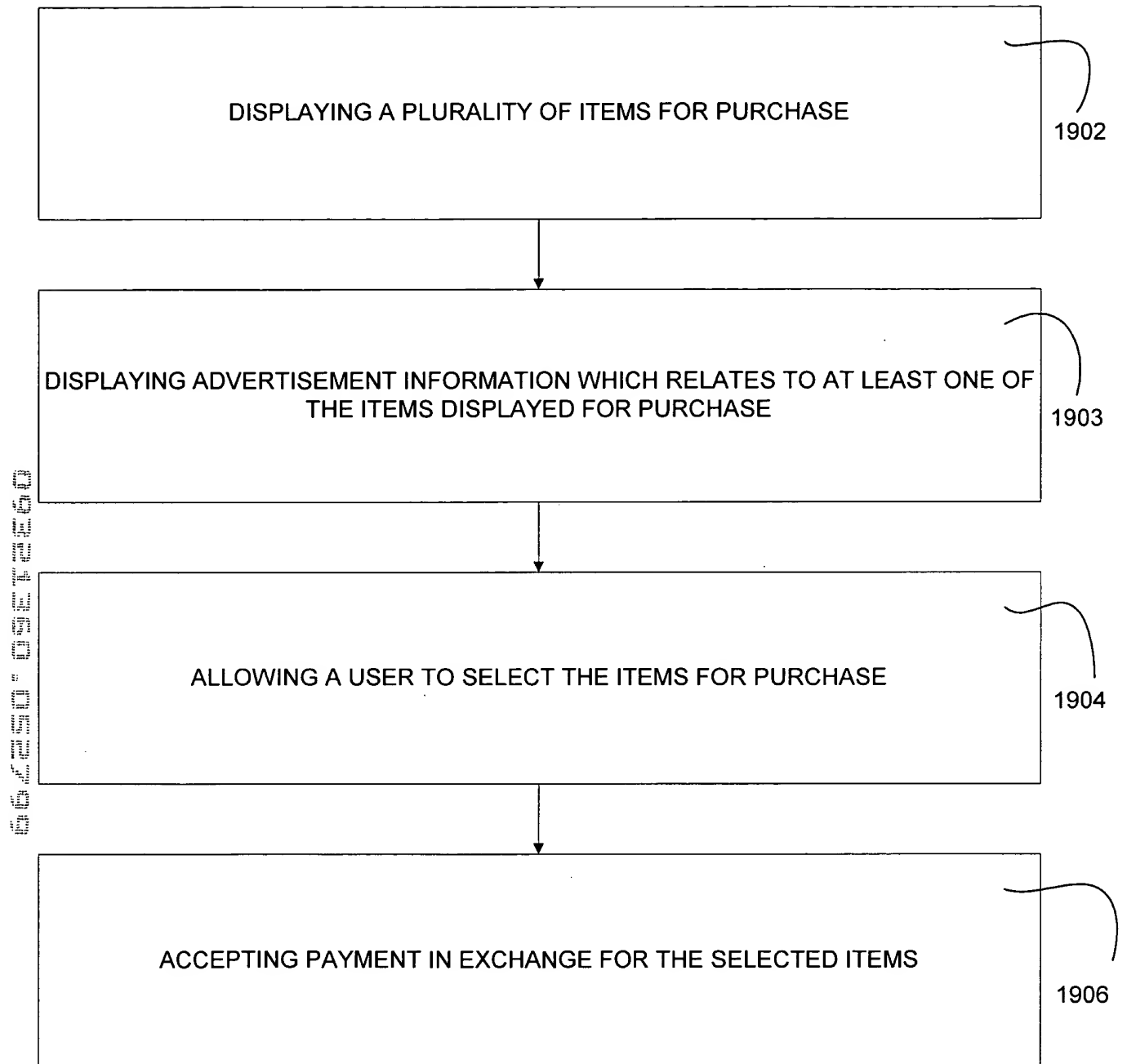


Figure 19

662493 094220

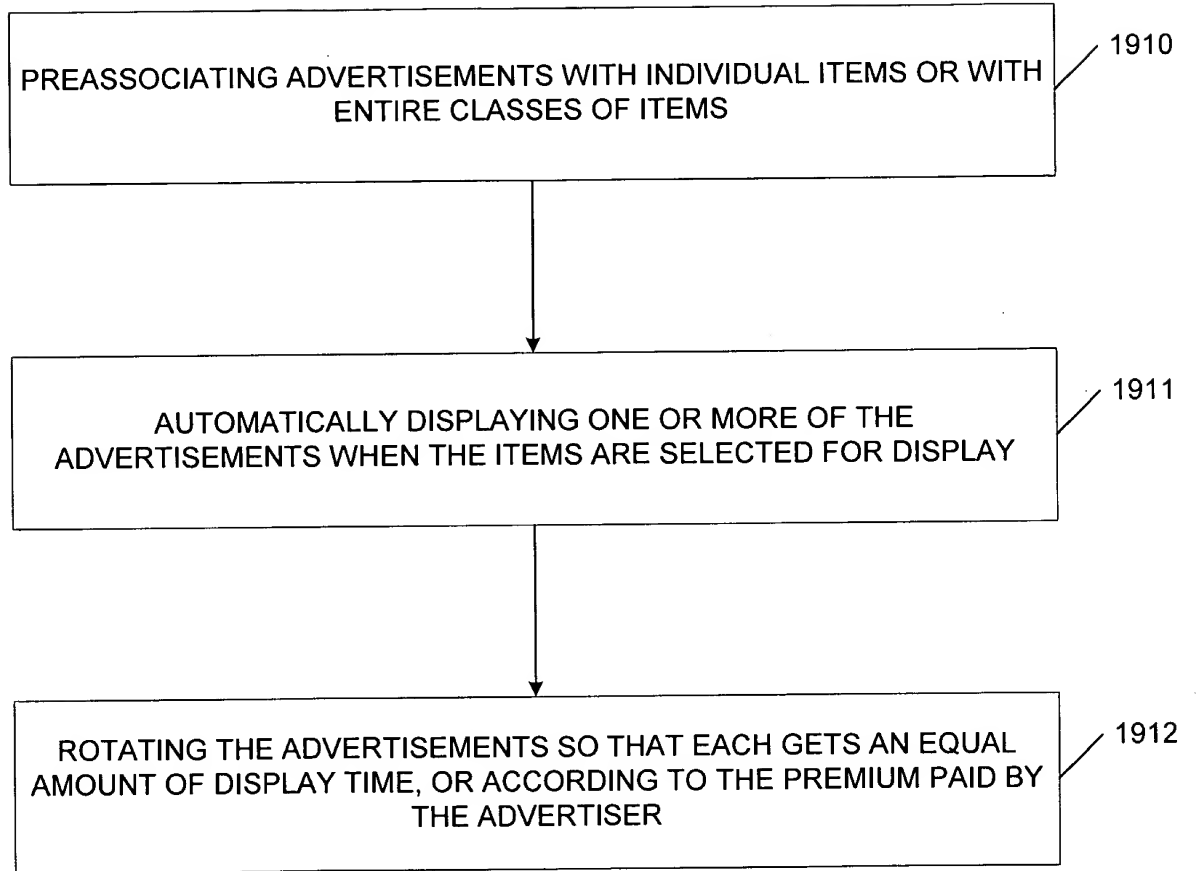
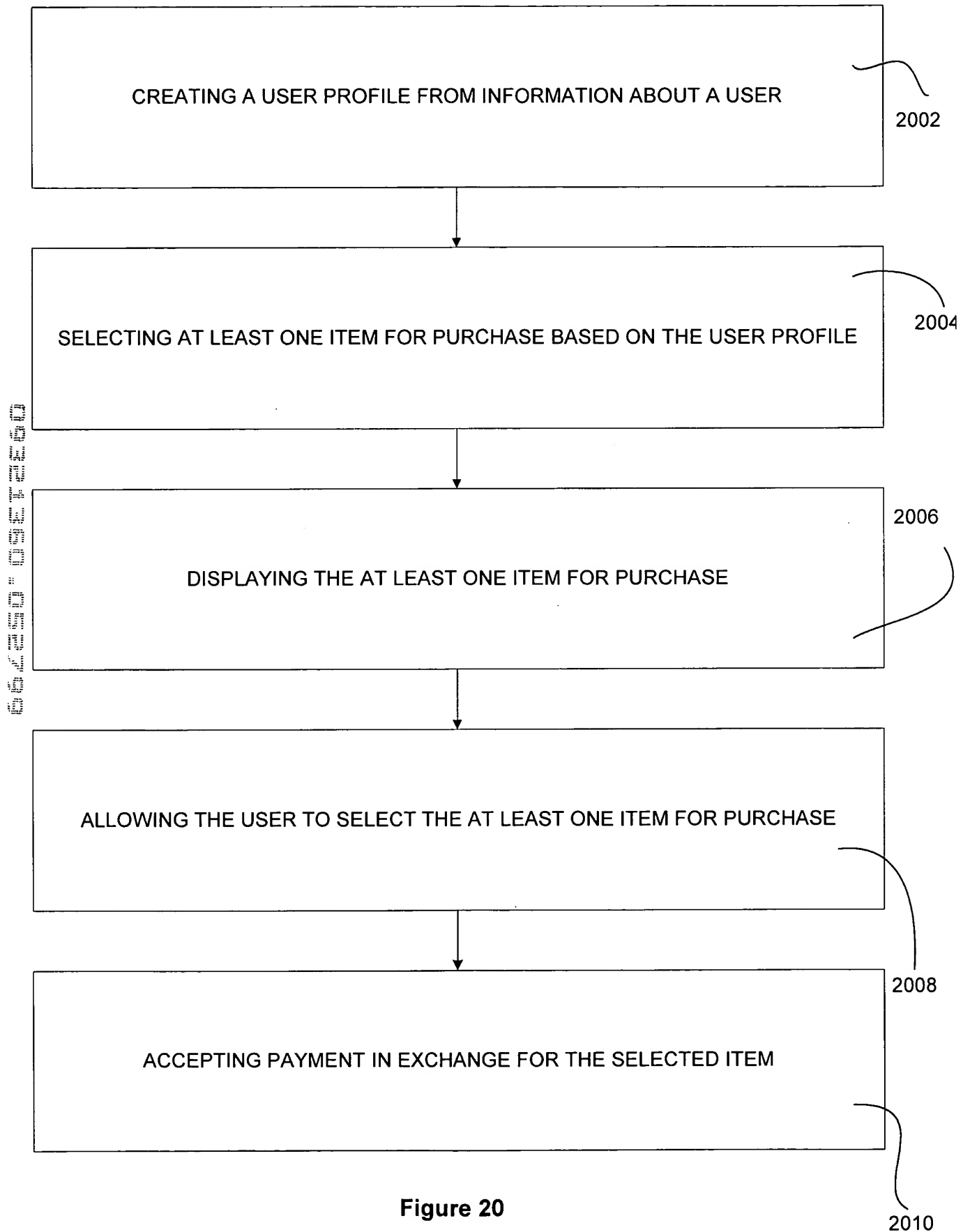
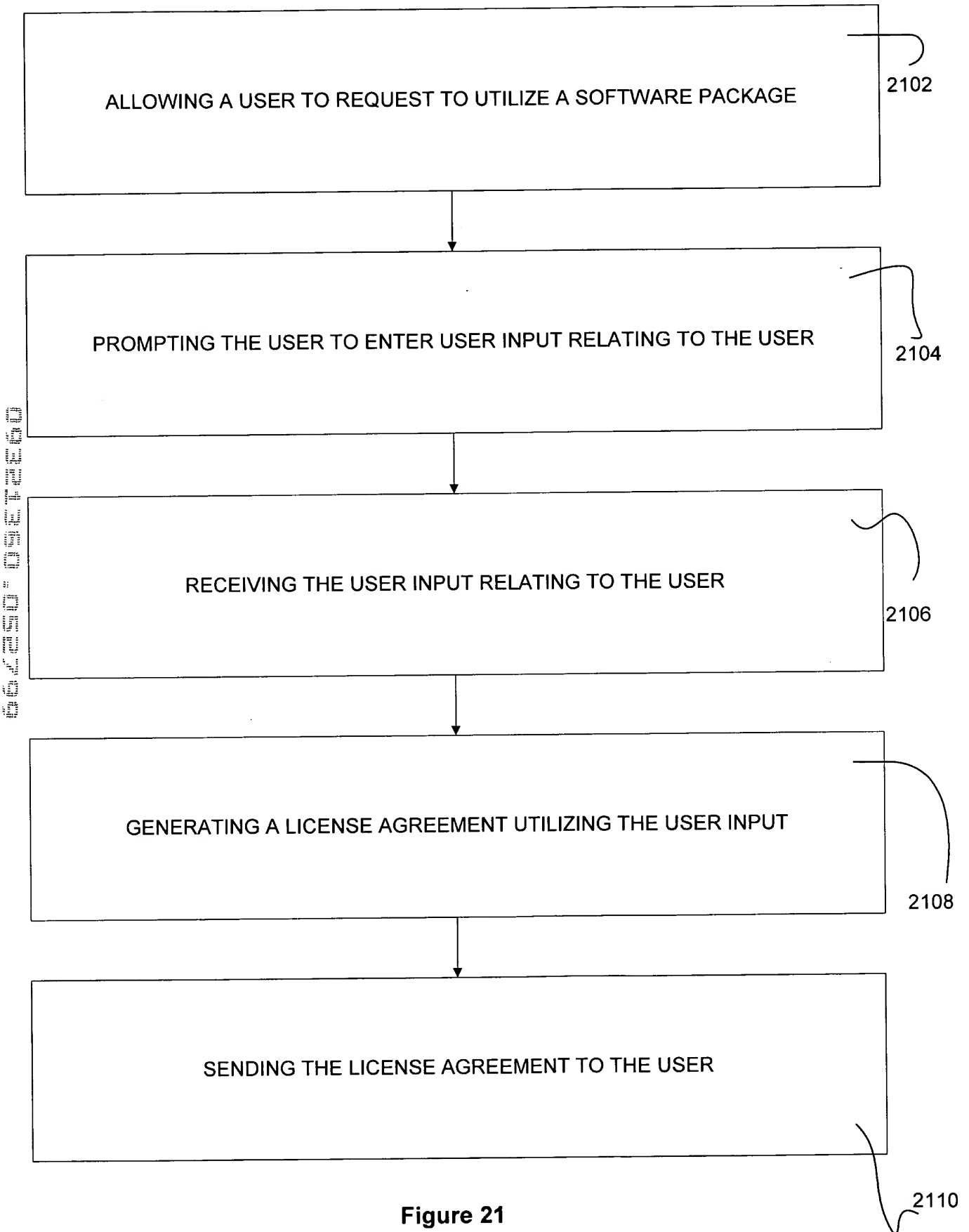


Figure 19A

1903





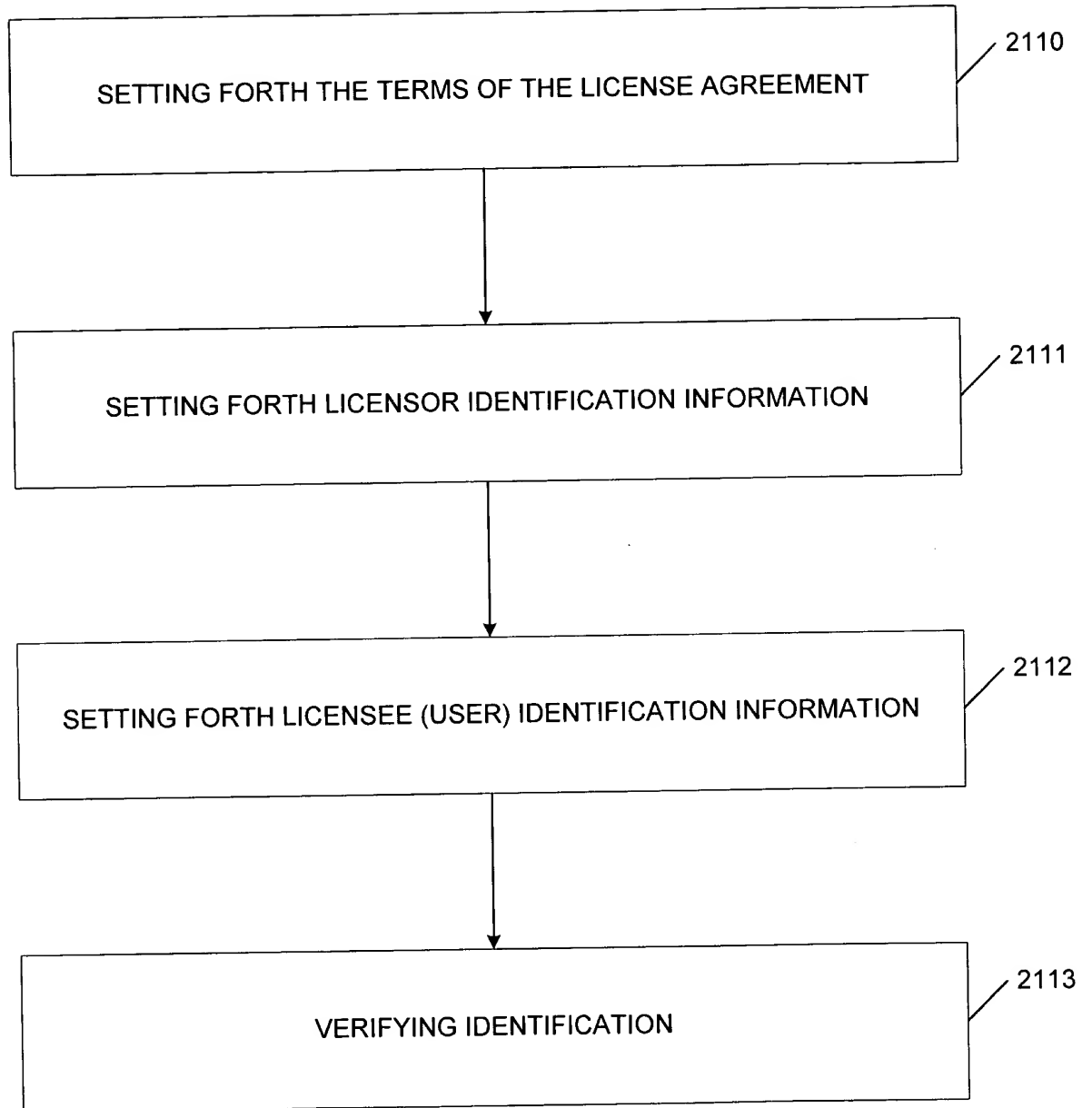


Figure 21A

2108

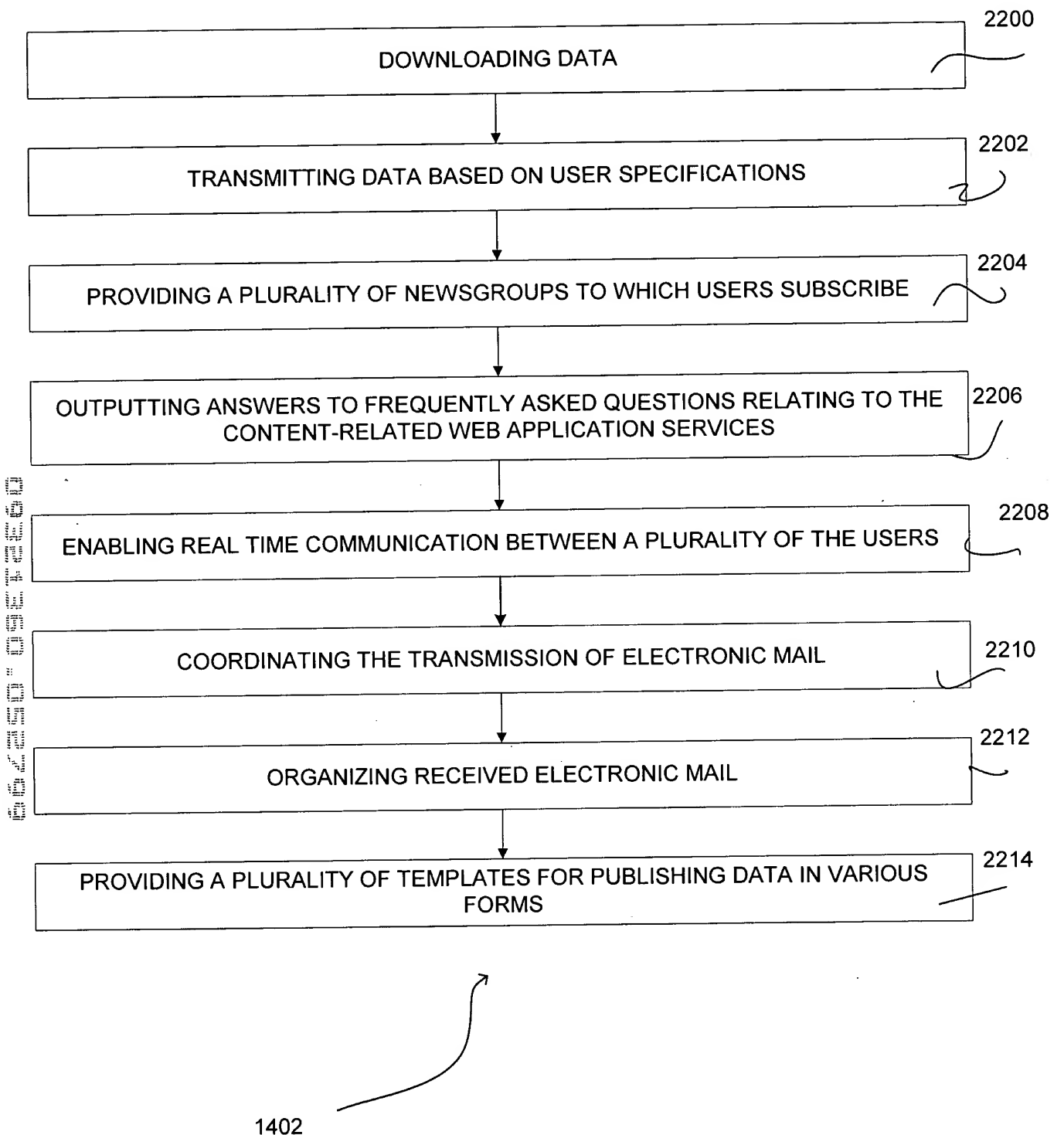


Figure 22

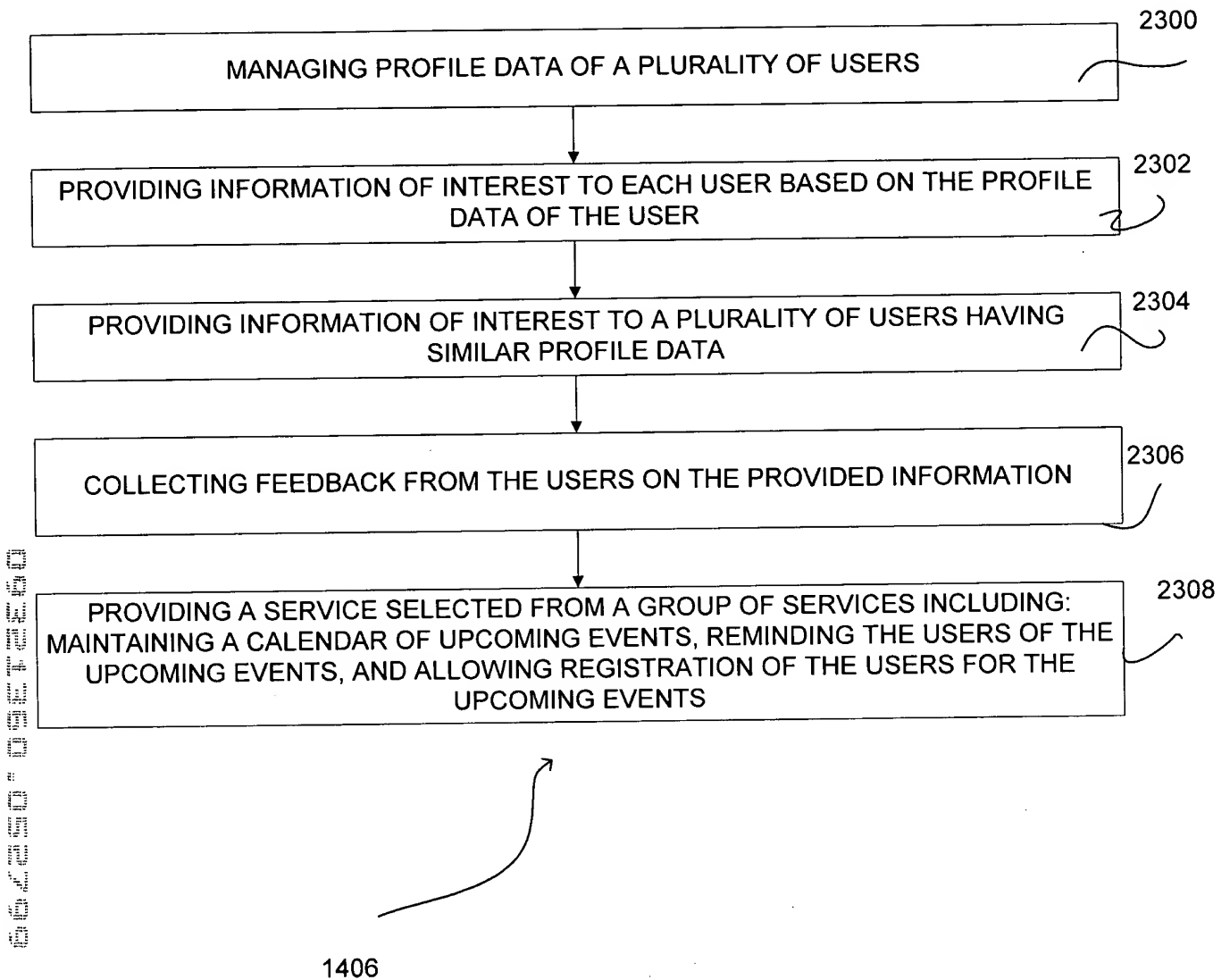


Figure 23

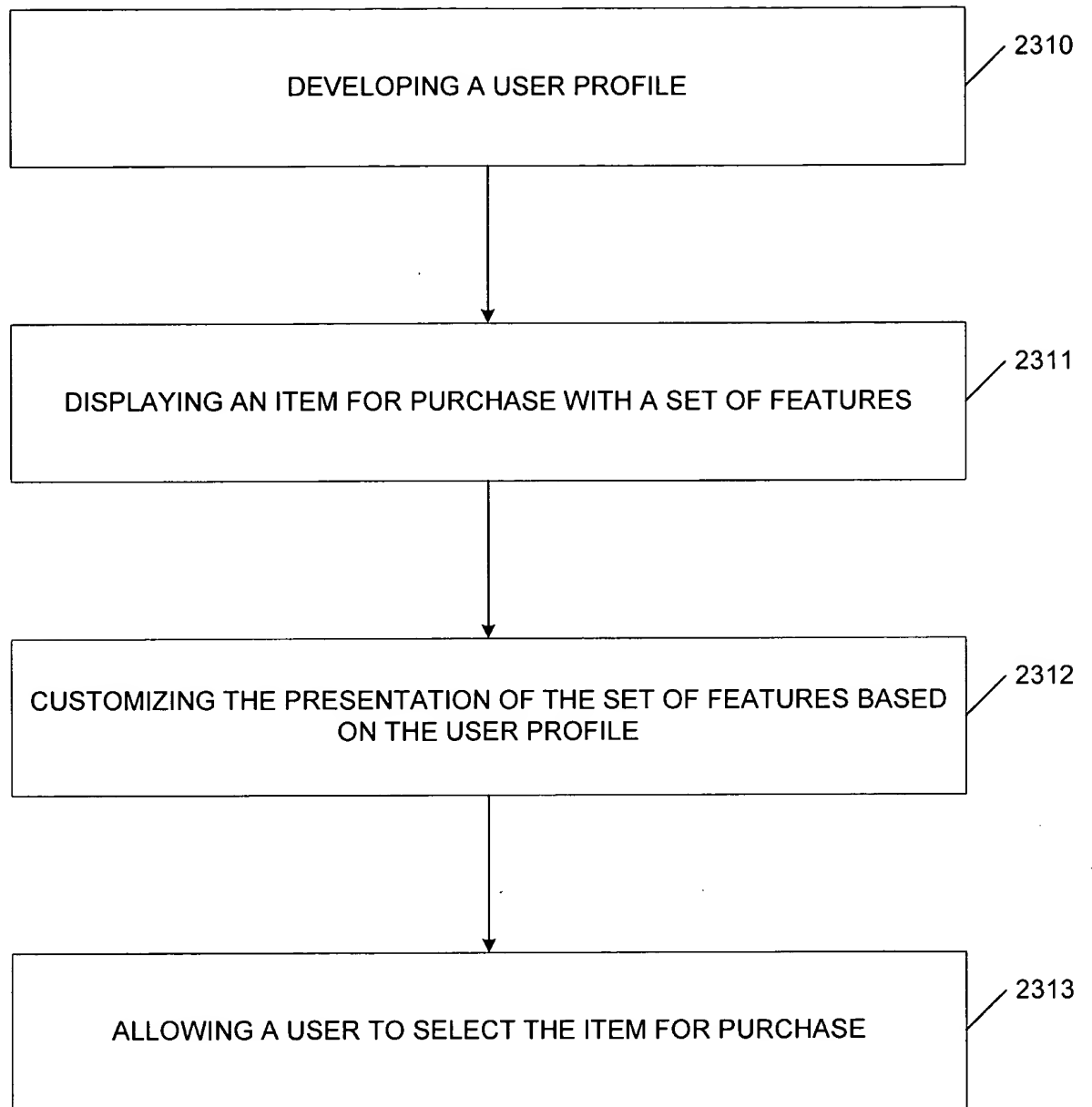


Figure 23A

2310

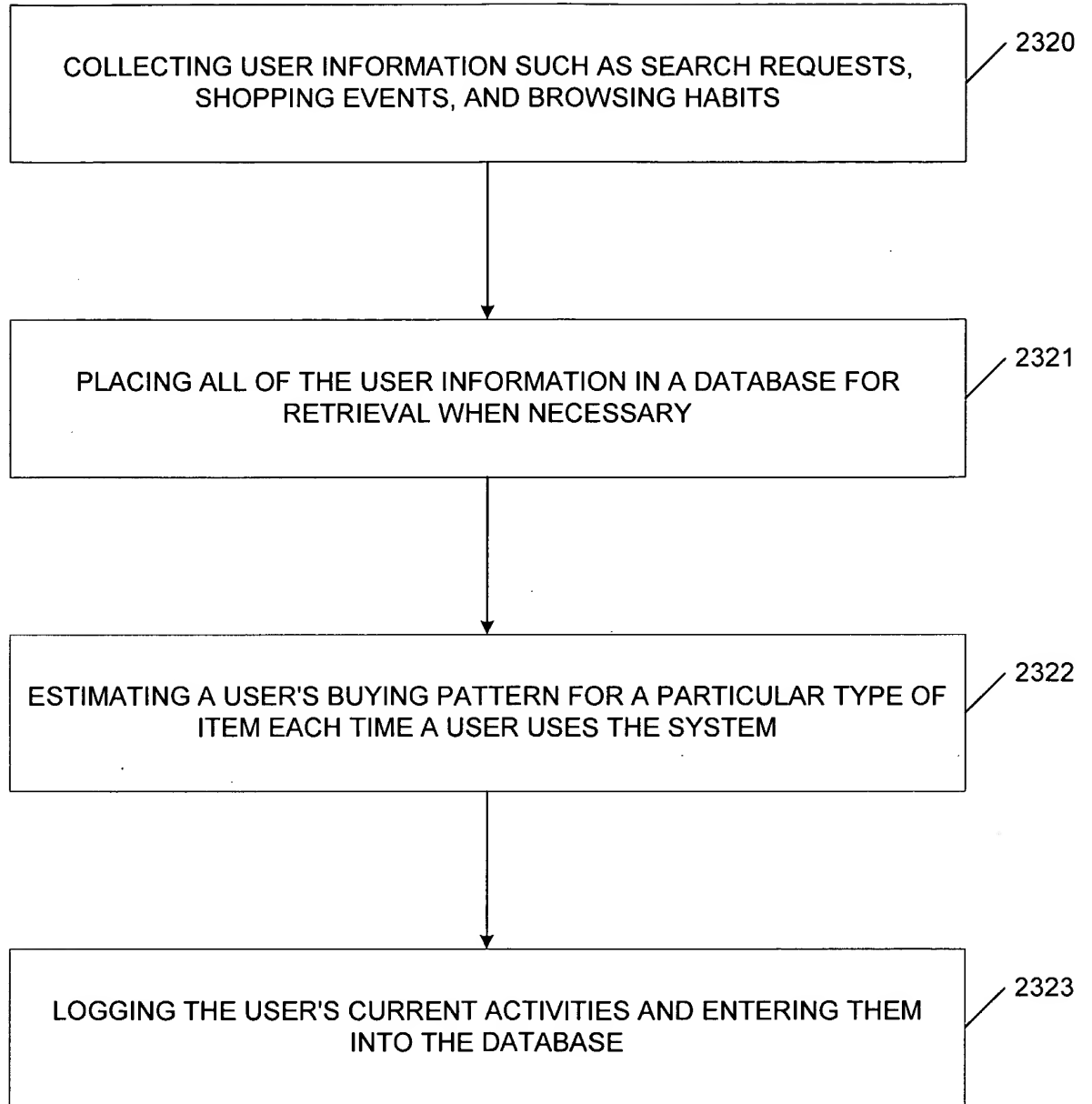


Figure 23B

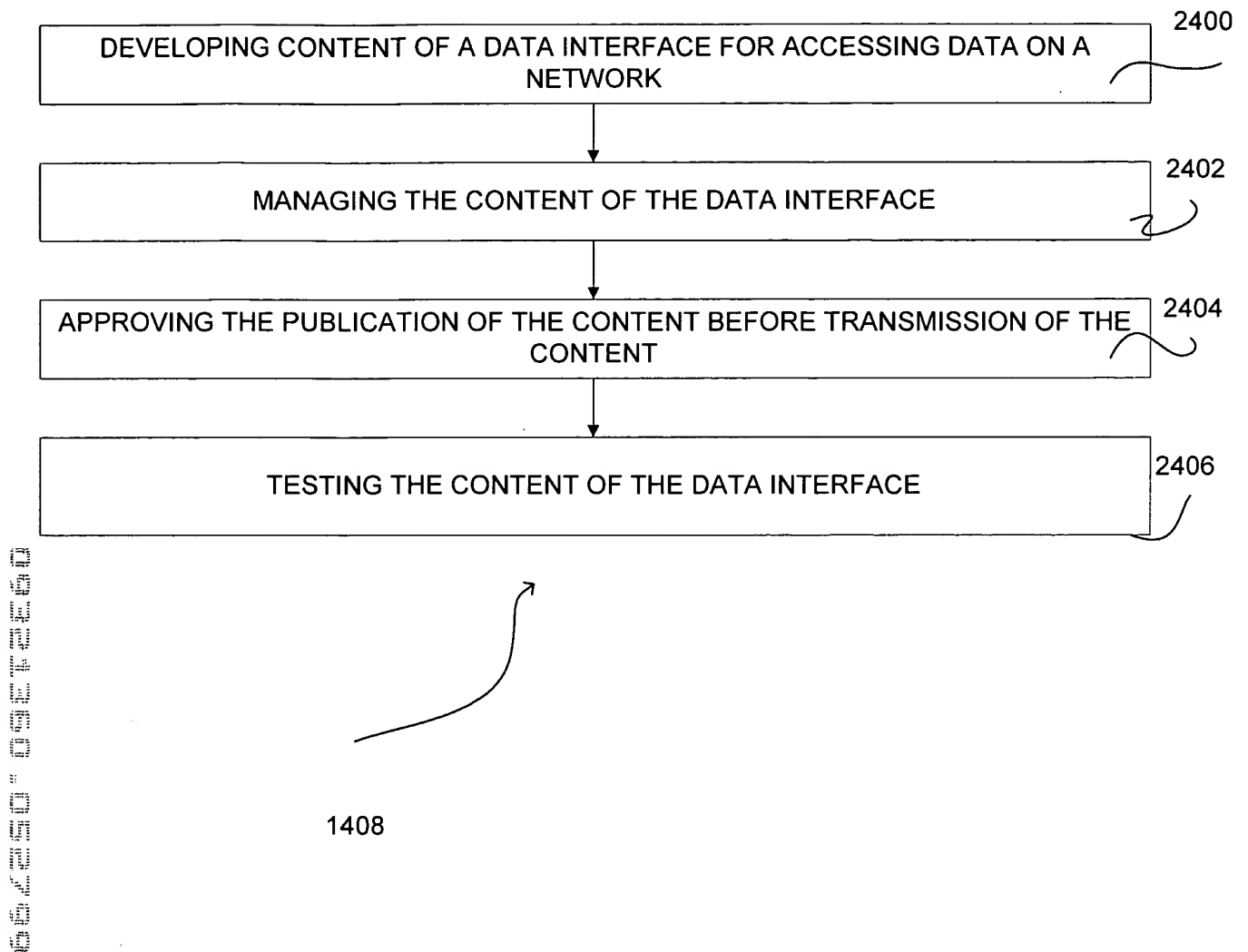
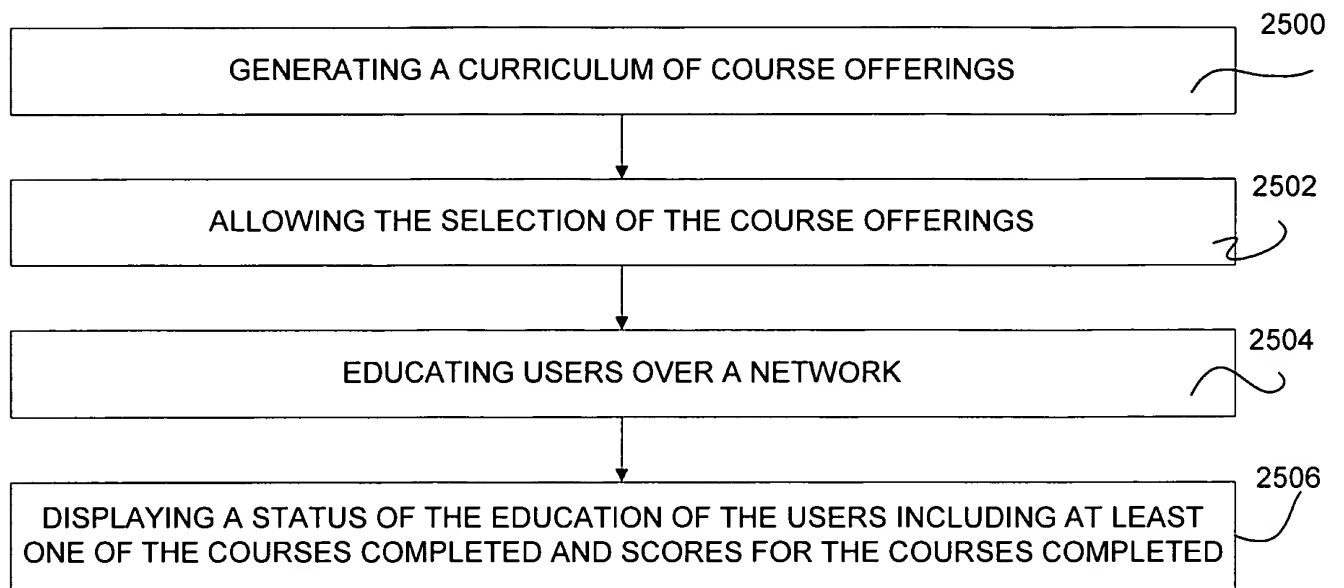


Figure 24

[illegible]

1410

Figure 25

2500

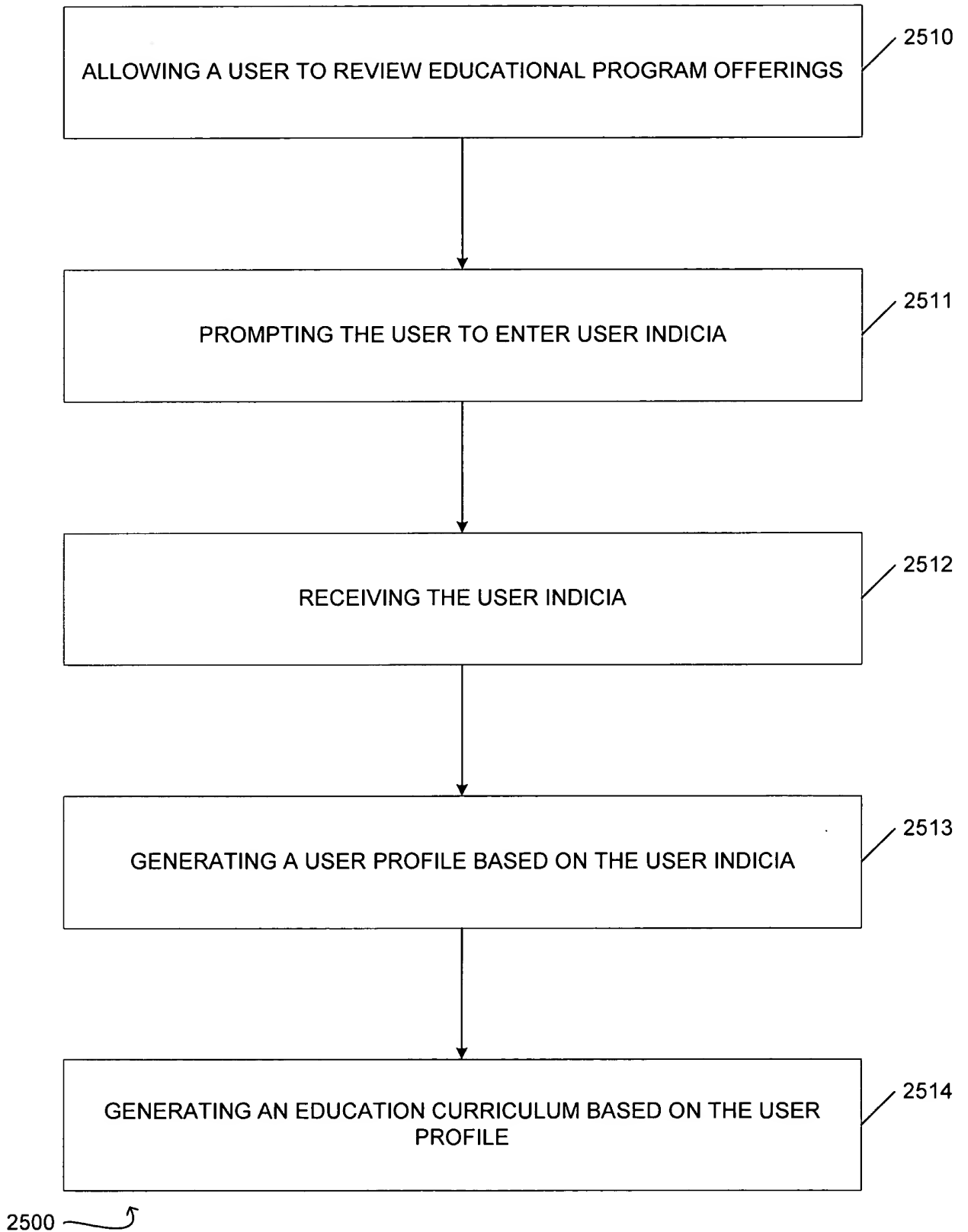


Figure 25A

2513

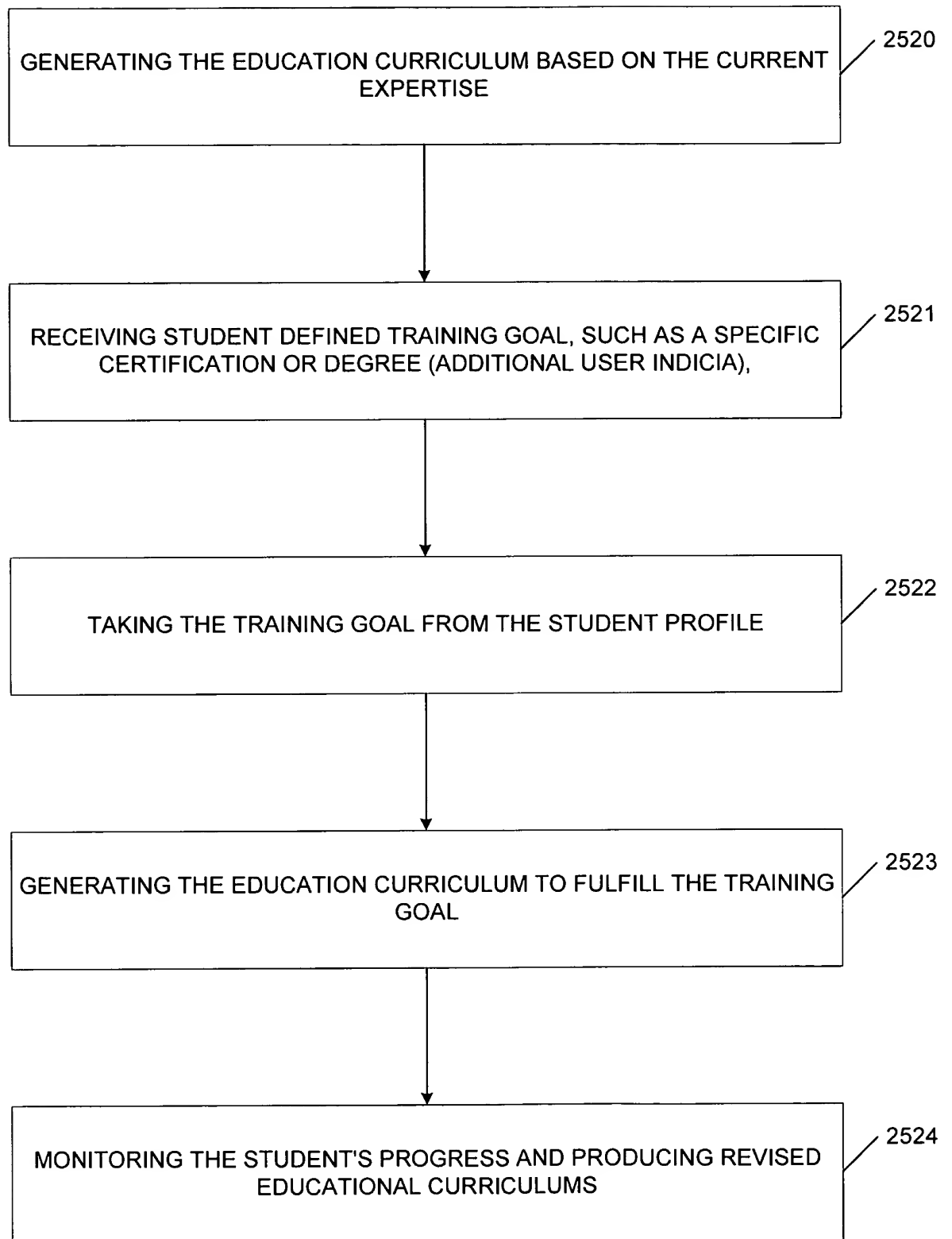


Figure 25B

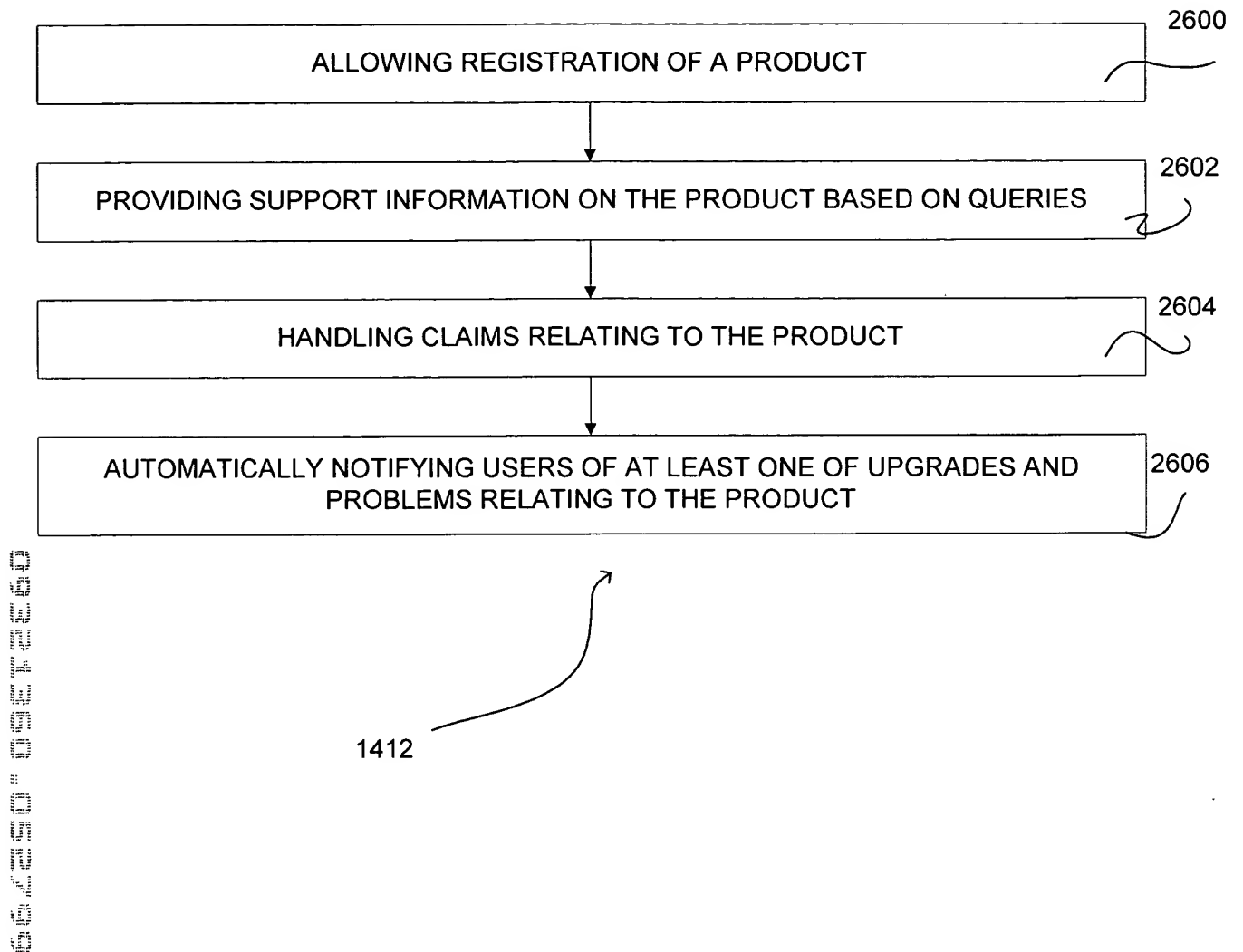
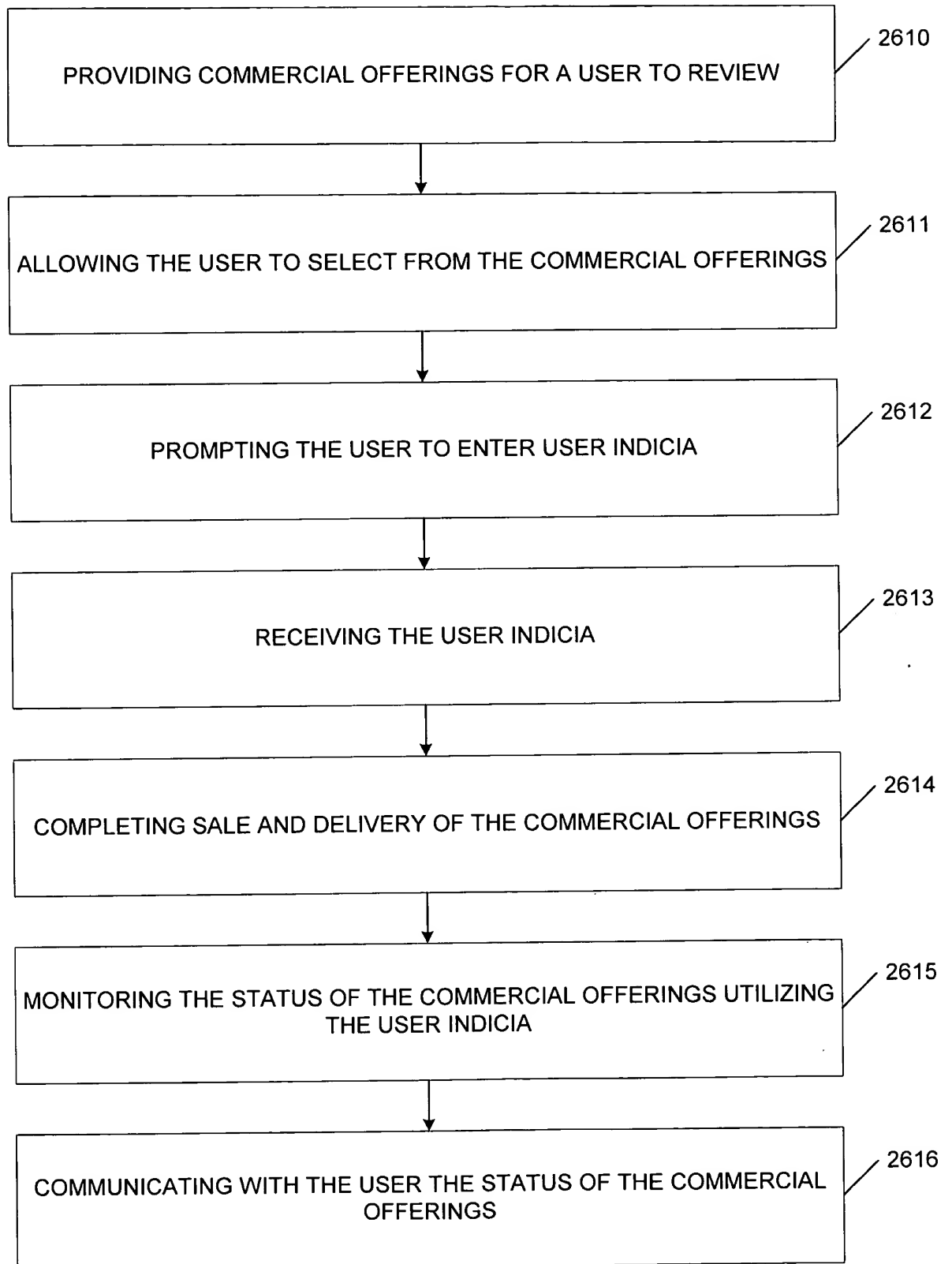


Figure 26

2606 2610 2611 2612 2613 2614 2615 2616



2606

Figure 26A


```
graph TD; 2700[ALLOWING BROWSER-BASED AUTHENTICATION WITH USER VERIFICATION DATA] --> 2702[GRANTING ACCESS TO AT LEAST ONE OF APPLICATION AND SYSTEM DATA BASED ON THE USER VERIFICATION DATA]; 2702 --> 2704[ENABLING VIRTUAL PRIVATE NETWORKING];
```

2700 ALLOWING BROWSER-BASED AUTHENTICATION WITH USER VERIFICATION DATA

2702 GRANTING ACCESS TO AT LEAST ONE OF APPLICATION AND SYSTEM DATA BASED ON THE USER VERIFICATION DATA

2704 ENABLING VIRTUAL PRIVATE NETWORKING

1414

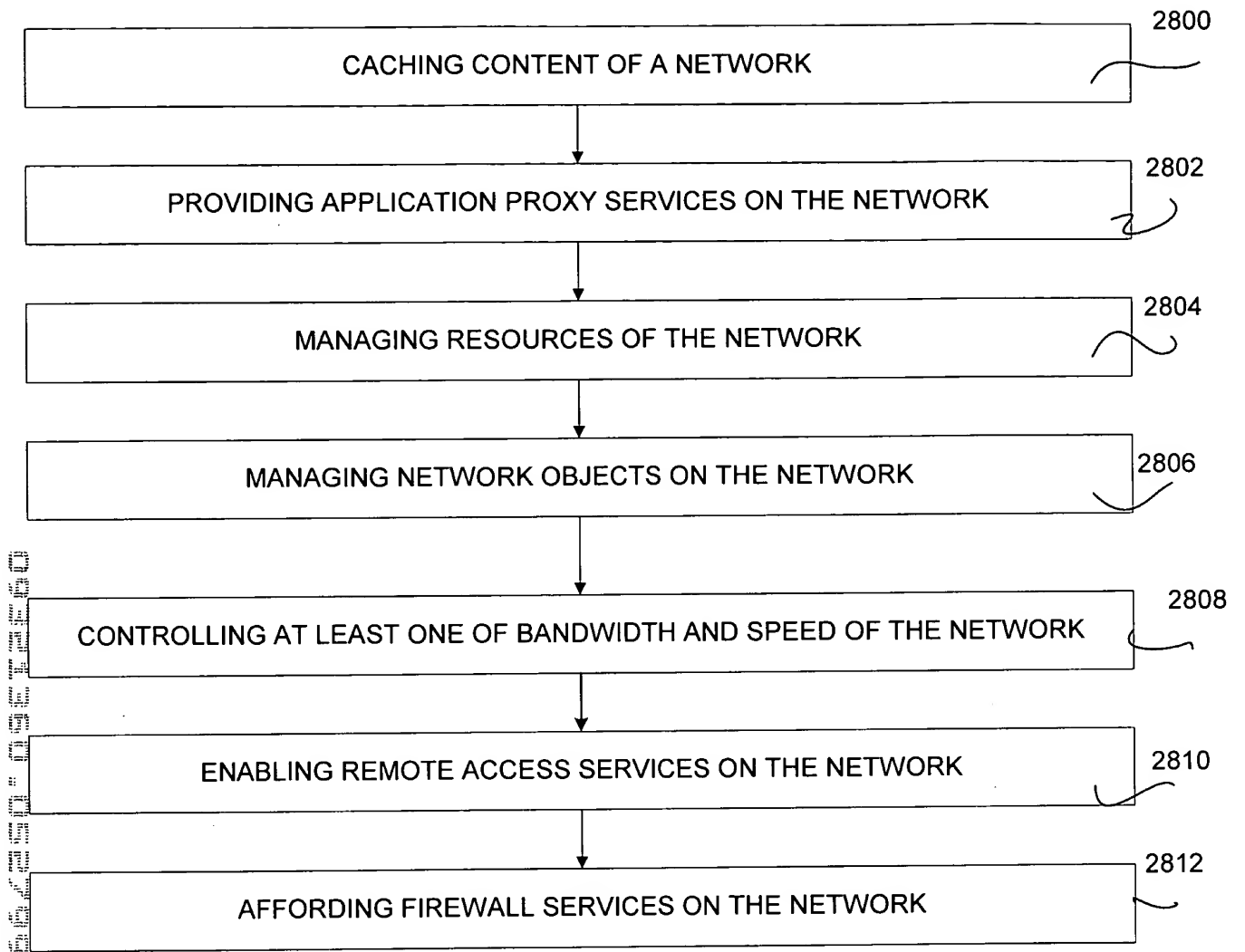


Figure 28

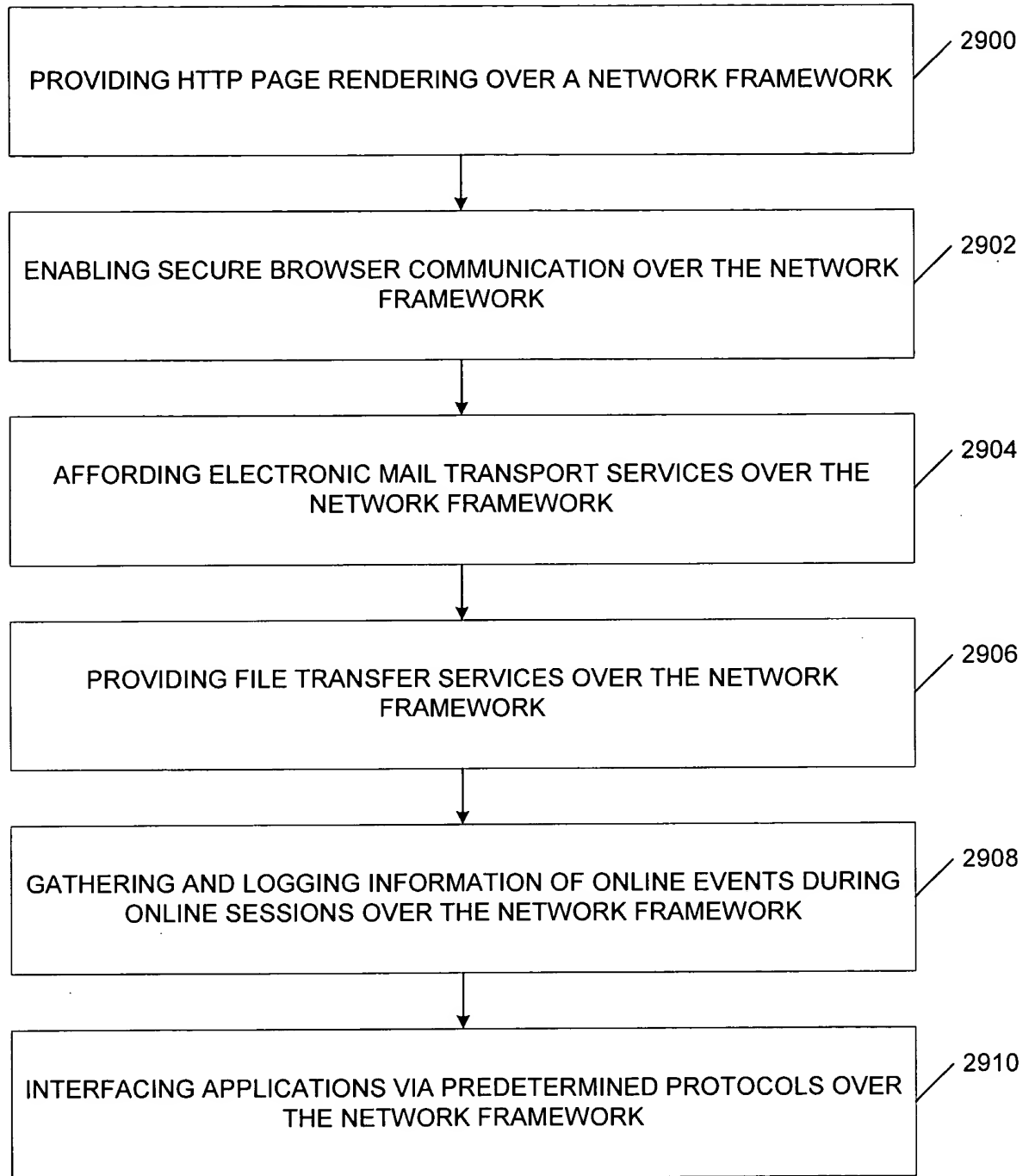


Figure 29

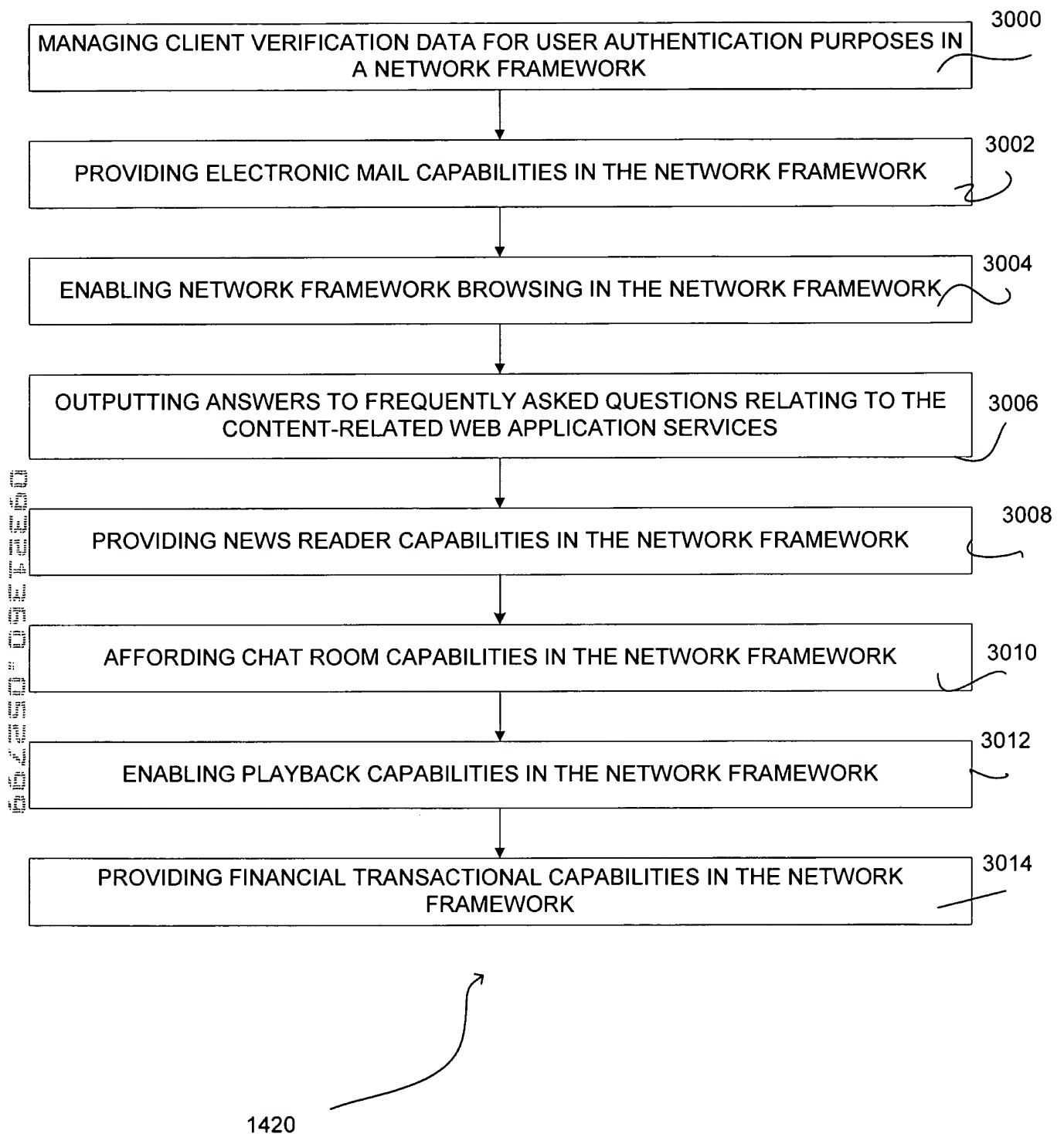


Figure 30

FIG. 31

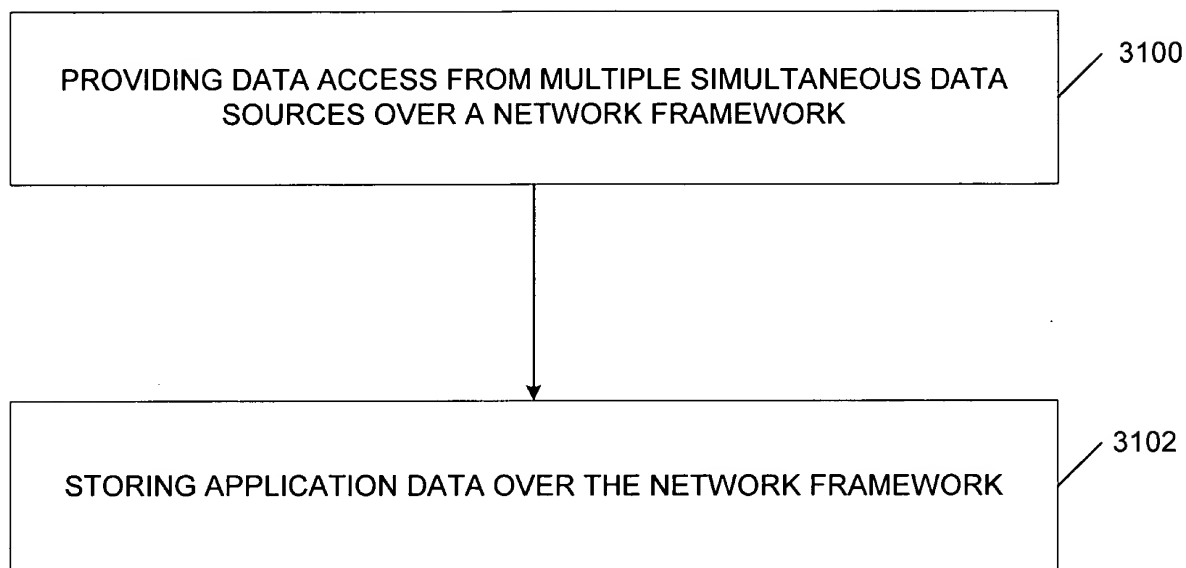


Figure 31

1424

```
graph TD; 3200[INTEGRATING FINANCIAL SYSTEMS OVER A NETWORK FRAMEWORK] --> 3202[IMPLEMENTING SALES FORCE INTEGRATION OVER THE NETWORK FRAMEWORK]; 3202 --> 3204[COMBINING HUMAN RESOURCE SYSTEMS OVER THE NETWORK FRAMEWORK]; 3204 --> 3206[INTEGRATING CALL CENTERS OVER THE NETWORK FRAMEWORK];
```

3200

INTEGRATING FINANCIAL SYSTEMS OVER A NETWORK FRAMEWORK

3202

IMPLEMENTING SALES FORCE INTEGRATION OVER THE NETWORK FRAMEWORK

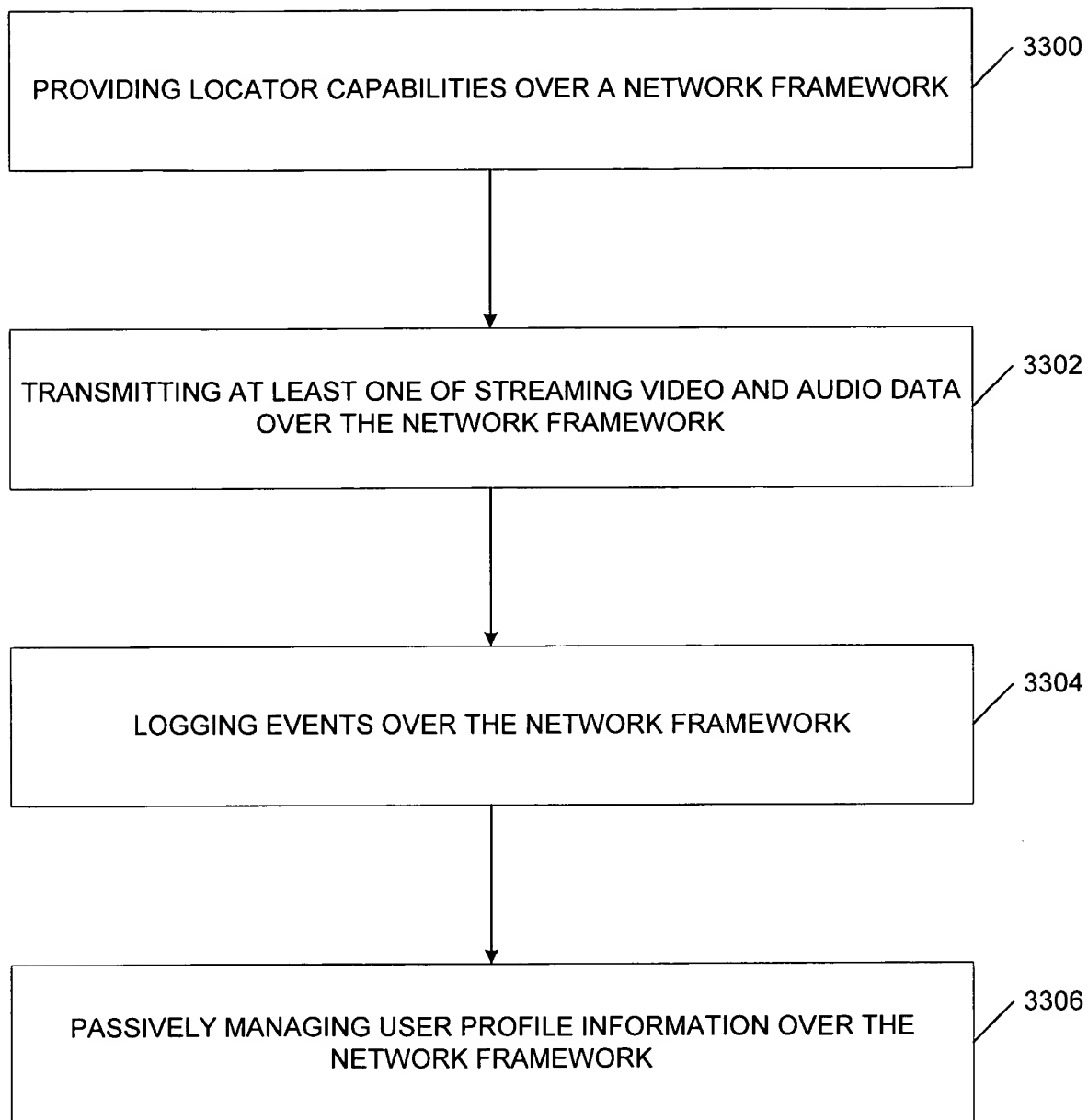
3204

COMBINING HUMAN RESOURCE SYSTEMS OVER THE NETWORK FRAMEWORK

3206

INTEGRATING CALL CENTERS OVER THE NETWORK FRAMEWORK

6940030



1426

Figure 33

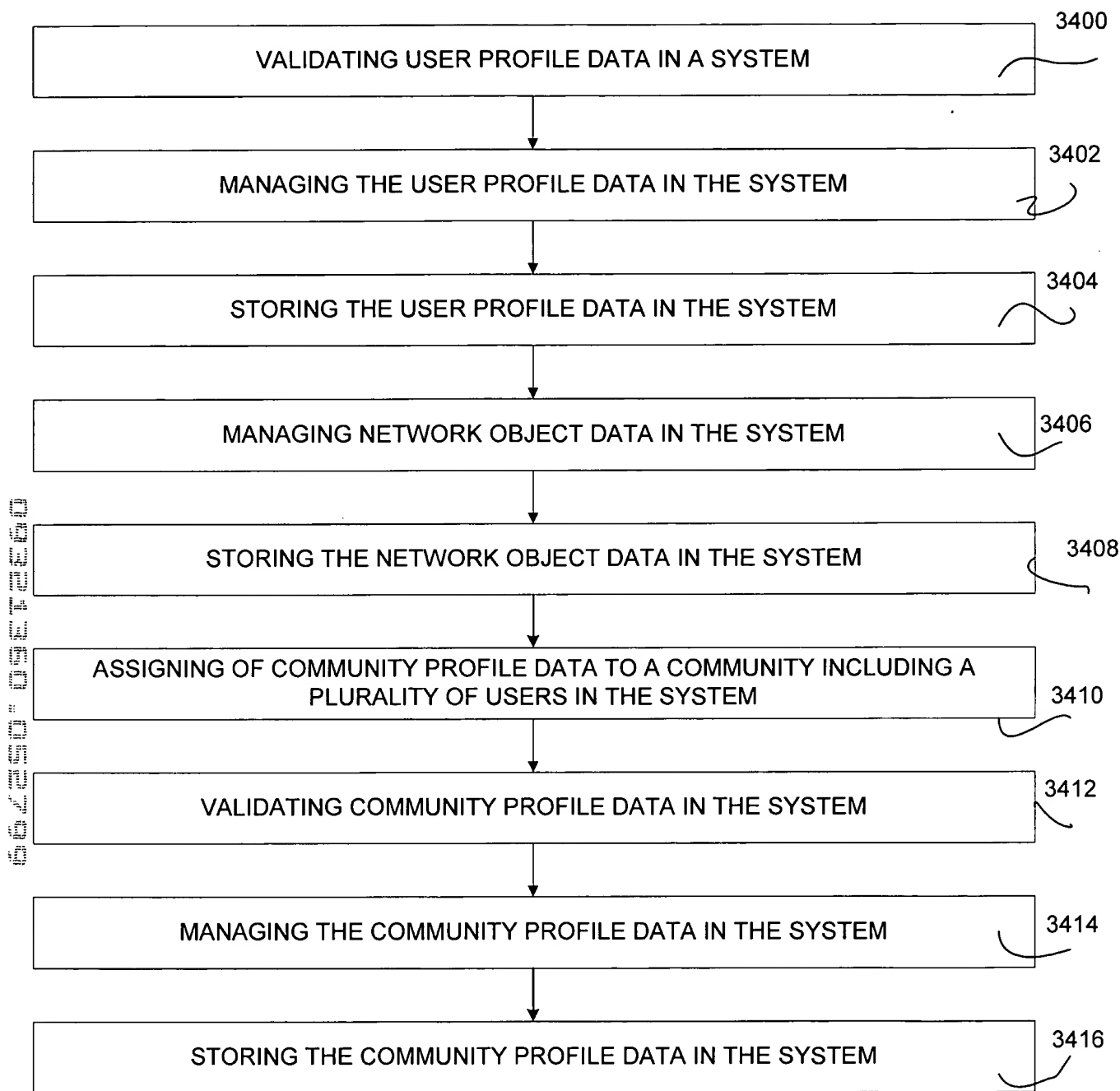
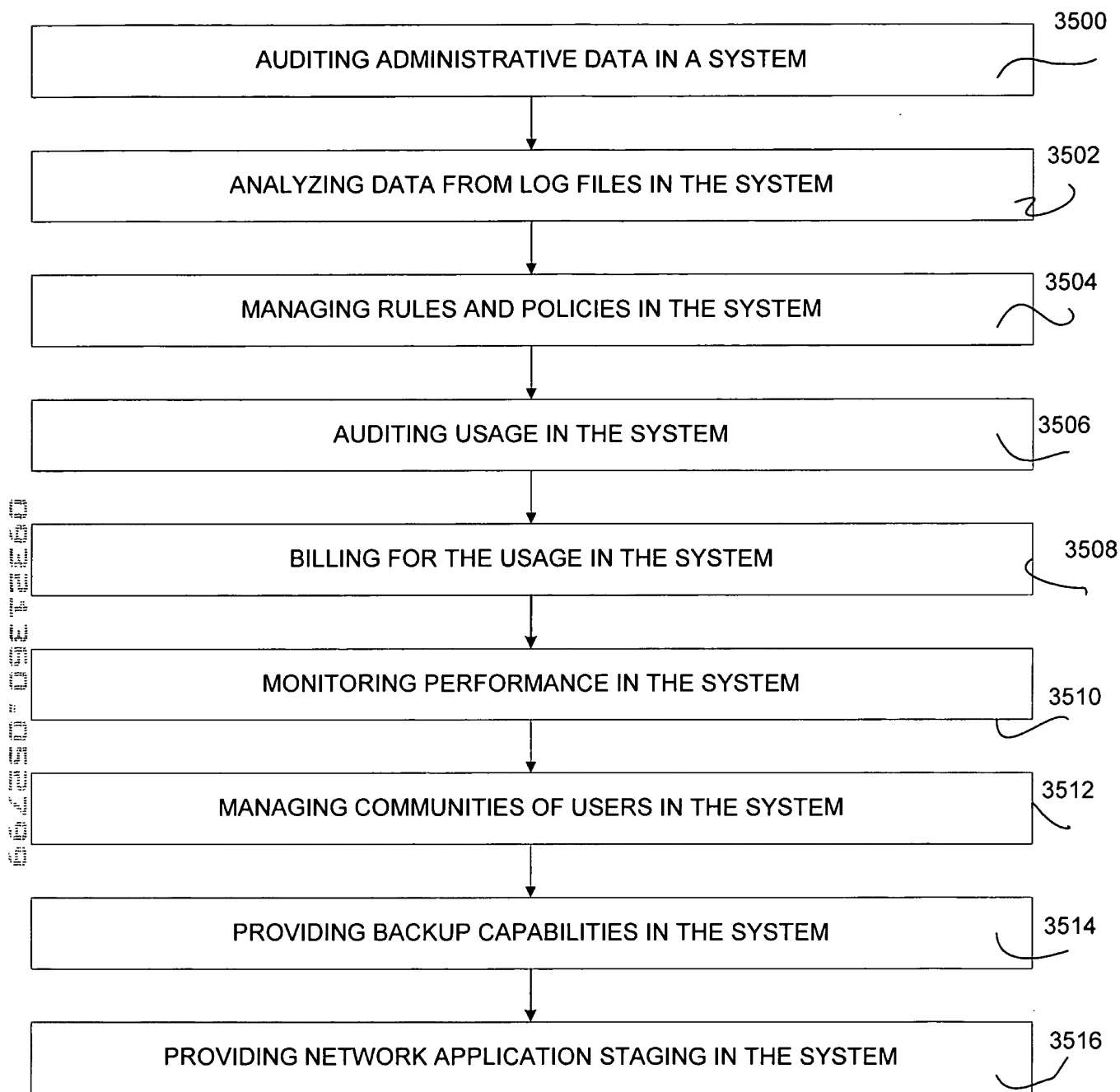
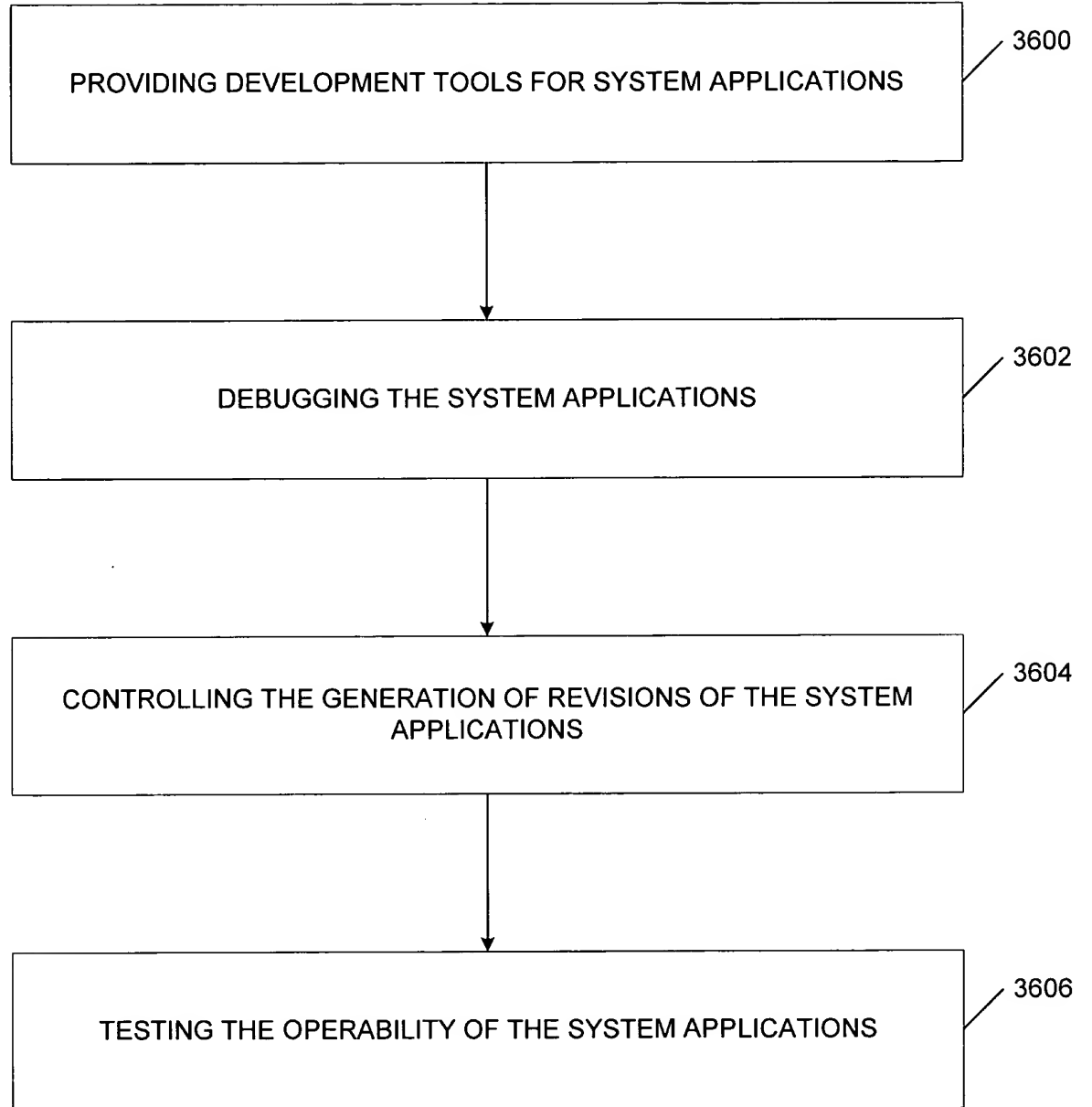


Figure 34



1430

Figure 35



1432

Figure 36